

Catalog of State Protection Development Grants

Fiscal Year 1993

Fourth Edition

U.S. Environmental Protection Agency
Office of Water
Office of Wetlands, Oceans and Watersheds
Wetlands Division

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INTRODUCTION TO CATALOG

States are becoming increasingly active in wetlands protection initiatives. The U.S. Environmental Protection Agency's (EPA) State Wetlands Protection Development Grant Program is intended to assist States/Tribes continue to increase wetlands protection at the State level and to develop new or improved techniques and programs to protect wetlands.

The intent of this catalog is to let States and others know the range of projects that have been funded by this grant program. There is much valuable information and insight that can be gained by examining the work of States. States can adapt ideas, techniques, programs, and products to their needs and can find out what worked or did not work in other States. This catalog is intended to help with information transfer among State agencies.

For further information about the State Wetlands Protection Development Grant Program, contact either the EPA Regional Office appropriate to your State or contact:

Ms. Lori Williams

U.S. Environmental Protection Agency

Wetlands Division (4502F)

Wetlands Strategies and State Programs Branch

401 M Street, SW

Washington, DC 20460
(202) 260-5084

STATE WETLAND PROTECTION DEVELOPMENT GRANTS

The State Wetland Protection Development Grant Program was established in Fiscal Year 1990 to support development of new State wetland protection programs or to support enhancement of existing State wetland protection programs. Grant funds are available to assist State wetland regulatory agencies as well as any State agency with wetland related programs. Federally recognized Indian Tribes are also eligible to receive grant funds under this program.

Interest in and funding for this grant program continues to increase. The initial funding for the grant program in FY90 was \$1 million; this increased to \$10 million in FY93.

Fiscal Year	Applications	Grants Awarded	\$\$\$ Available	\$\$\$ Requested
1990	50	23	1 million	3 million
1991	140	60	5 million	13 million
1992	157	80	8.5 million	17.5 million
1993	165	100	10 million	19 million

By the end of fiscal year 1993, every State will have received at least one State Wetland Grant.

HIGHLIGHTS OF THE FY93 STATE GRANT PROGRAM

State response to this grant program has been very enthusiastic. The grant program provides opportunities for States to be creative in thinking about ways to improve existing programs or develop new wetland protection programs.

State Wetland Conservation Plans

Development of State Wetland Conservation Plans (SWCP) continues to be an area that receives great interest from States. The intent of a SWCP is to improve the effectiveness and efficiency of government programs and private sector efforts to protect, restore, enhance, and create wetlands in a State by

identifying opportunities for coordinating existing wetland programs and determining where additional authorities or programs are needed to protect and conserve the State's wetlands. The approach allows for great flexibility to accommodate the differing institutional circumstances and the levels of capability that exist among the States. Connecticut, Indiana, Louisiana, Maine, Minnesota, Montana, Nevada, North Dakota, Utah, the Campo Band of Mission Indians (California), the Kickapoo Tribe in Kansas, the Morongo Band of Mission Indians (California), the Passamaquoddy Tribe (Maine), the Pueblo of San Juan (New Mexico), and the St. Regis Mohawk (New York) received grants to develop a SWCP during FY93.

The Maine State Planning Office will develop a Wetlands Conservation Plan (Plan) in cooperation with all Federal, State, local, and non-profit entities involved in protecting Maine's wetlands as well as interested private parties and citizens. Once developed, the Plan will provide the basis for an integrated approach to managing the State's wetland resources through both regulatory and non-regulatory measures.

Minnesota agencies responsible for wetland management will develop a blueprint to integrate wetland protection in Minnesota. The Minnesota Department of Natural Resources, Pollution Control Agency, and the Board of Water and Soil Resources have agreed to work cooperatively toward completion of this "blueprint."

The Pueblo of San Juan (New Mexico) will develop a Tribal Wetland Conservation Plan. Because of recent wetland losses caused by mineral extraction in the Rio Grande River lowering the ground water table, the Tribe feels that it is important to assure no further loss of wetlands. This project will provide for the inventory, assessment, evaluation and development of a long term plan for the protection and restoration of wetlands within the boundaries of the Pueblo of San Juan.

Watershed Protection Projects

The Georgia Department of Natural Resources, in conjunction with The Georgia Conservancy, will do a watershed project in the Ebenezer Creek watershed. The objective of this project is to provide an information base to be used to define measures for protecting and reversing the current trend of degradation for the Ebenezer Creek watershed.

The Illinois Department of Conservation will prepare a watershed protection plan for the Cache River watershed in southern Illinois. The planning effort will include public and private agencies as well as individual landowners. The plan will address a broad spectrum of integrated resource management problems in the watershed, including soil erosion and water quality.

A multi-agency project in Oklahoma, involving the Oklahoma Pollution Control Coordinating Board and the Oklahoma Department of Pollution Control, involves three watershed demonstration projects (the Little Washita River, the Willow Creek Watershed, and the Salt Creek Watershed). The purpose of these projects is to accomplish wetland management and protection by integrating with other conservation and

water quality programs within a targeted watershed. The main objective of these projects is to improve stream and ground water quality and complete the restoration of riparian wetlands.

The Pueblo of Zuni (New Mexico) will develop a sustainable natural resource development plan, including a watershed restoration plan. The purpose of the project is to inventory assess, evaluate and develop a long term plan for the protection and restoration of wetlands within the Zuni Pueblo. The effort will include inventory and evaluation of wetland resources in the Upper Rio Nutria watershed; evaluation of sediment sources and yields within the upper watershed; prioritization of wetlands based on ecological value and sediment impacts; formulation of watershed treatments to reduce sediment loads; identification of a monitoring plan including the use of biological indicators; and development of a prototype wetland/watershed restoration plan.

The Skokomish Tribe (Washington) will conduct a Watershed Protection Approach Demonstration Project for the Skokomish River Basin in the Hood Canal region of western Washington. This will provide a blueprint for all relevant governmental entities to focus protection, restoration, and management of wetlands and other water resources in the Skokomish River Basin and Estuary.

Other Projects

Riparian issues are the focus of several grants--Arizona, California, Colorado, Kansas, Missouri, Montana, Oklahoma, Wyoming, the Confederated Tribes of the Umatilla Indian Reservation (Oregon), and the Walker River Paiute Tribe (Nevada). The Wyoming Department of Environmental Quality and The Nature Conservancy will undertake a wetlands/riparian inventory of watersheds in the western half of Wyoming. The Wyoming Department of Agriculture will work with the Wyoming Riparian Association to develop outreach materials to increase awareness of and protection/management for wetlands and riparian areas in Wyoming. The Walker River Paiute Tribe (Nevada) will inventory wetland and riparian resources and develop a management program for those wetlands. The Arizona Department of Game and Fish will develop a State riparian protection program as specified by the Arizona legislature (SB 1030). The Department will develop and implement a functional assessment methodology to be used in the evaluation of a statewide regulatory protection program for riparian areas.

Mitigation is another topic that is addressed in several grant projects. The Delaware Department of Natural Resources and Environmental Control will develop the institutional and administrative framework of a statewide wetland compensatory mitigation program. Elements of the project will address issues of ecological and operational management; public or private ownership (including the feasibility of public/private joint ventures and licensing of privately owned/operated compensatory mitigation banks; and identification and development of necessary incentives or investment opportunities which will lead to establishing compensatory mitigation banks.

The Ohio Environmental Protection Agency will seek to strengthen wetlands protection by developing quantitative performance goals for measuring the success of wetland mitigation projects. Procedures will be developed to insure that mitigation monitoring data can be used to determine success and/or the need

for corrective measures at wetland mitigation sites.

The Delaware Department of Natural Resources and Environmental Control will work to improve both the surveillance and compliance components of Delaware's existing subaqueous and tidal wetlands programs through development of improved compliance tracking and Federal/State coordination mechanisms for waters of overlapping jurisdiction. Delaware will work to enhance coordination and minimize duplicative enforcement activities between overlapping State and Federal programs.

Several New England States (Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont), in partnership with The Nature Conservancy, will develop a comprehensive, region-wide database of rare wetland species and communities. The projects will provide state-wide data which is critical to the regulatory protection of State and globally rare wetland resources.

The Maine Department of Agriculture, Food and Rural Resources will conduct a demonstration project to study cranberry farming in upland areas. Test plots will be developed to determine the applicability of new cranberry farming in Maine's upland soil types. This project has the potential to prevent further degradation to wetlands in Maine, and potentially throughout similar areas in the northeast, by providing growers with performance standards for non-wetland cranberry production.

The New Hampshire Office of State Planning, in conjunction with the New Hampshire Audubon Society, will assist several municipalities in their efforts to develop stronger local wetland protection programs. Municipal wetland maps will be prepared, and assistance will be provided in developing appropriate local protection tools including the designation of prime wetlands and the preparation of comprehensive wetland protection plans.

Virginia will examine the "net effects" of utilization of the Virginia Department of Transportation's wetlands bank by conducting a functional assessment of the bank and each of the wetland losses charged against that bank. The results of this study will document the gains or losses in wetland functions which have resulted and will provide guidance for wetland managers regarding the utility of the approach.

One part of the Washington project involves support for three or four local jurisdictions to develop local planning programs which provide strong protection of wetland resources, involve the State and Federal agencies as well as the general public in the planning process, and provide models of wetlands planning that can be used by other local jurisdictions in Washington.

HEADQUARTERS SET ASIDE

Each year EPA's Wetlands Division retains 15% of the grant funds in a Headquarters set aside. These funds are intended to support and supplement Regionally identified State projects with special emphasis on three priority categories that are important from a national perspective--State Wetland Conservation Plans, Section 404 State Assumption Support, and Watershed Protection Approach Demonstration

Projects. These three projects areas are important because they require a comprehensive, integrated approach to wetlands management from a geographic, programmatic, and inter-governmental perspective. These projects provide States with the opportunity to provide national direction and leadership.

The States that were selected for funding out of the Headquarters set aside are:

- State (Tribal) Wetland Conservation Plans
- Maine State Planning Office
- Passamaquoddy Tribe (Maine)
- Louisiana Department of Natural Resources
- Pueblo of San Juan (New Mexico)

California, participating agencies include:

- The Resources Agency
- Wildlife Conservation Board
- State Water Resources Control Board
- Department of Fish and Game
- State Coastal Conservancy
- Department of Parks and Recreation

Watershed Protection Approach Projects

- Maine Department of Inland Fisheries
- West Virginia Department of Commerce, Labor, and Environmental Resources
- Pueblo of Zuni (New Mexico)
- Oregon Division of State Lands
- Skokomish Tribe (Washington)

Section 404 Assumption Assistance

- New Jersey Department of Environmental Protection and Energy
- Florida Department of Environmental Regulation
- Descriptions of each of these grants are included in the catalog.

ALASKA

TITLE: Kenai River Watershed Important Lands Conservation Initiative
AGENCY: Alaska Department of Fish and Game
Habitat and Restoration Division

333 Raspberry Road
Anchorage, AK 99518-1599
CONTACT: Lance L. Trasky
(907) 267-2342

FUNDING: Total project: \$73,500
EPA funding: 30,000
State match: 43,500

This is a two phase public/private partnership project to protect valuable lands in the Kenai Watershed. In phase one, the Department of Fish and Game and The Nature Conservancy will cooperate in identifying lands essential to the health of the Kenai River drainage and determining public attitudes about conservation of the Kenai River. Phase two will establish mechanisms for implementing the protection of essential lands.

ARIZONA

TITLE: Wetlands Protection Program
AGENCY: Department of Game and Fish
2221 W. Greenway Road
Phoenix, AZ 85023
CONTACT: Glen Dickens
(602) 789-3521
FUNDING: Total project: \$130,500
EPA funding: 90,000
State match: 40,500

This grant will assist in the development of a State riparian protection program. The Arizona Department of Game and Fish will develop and implement a functional assessment methodology to be used in the evaluation of a statewide regulatory protection program for riparian areas.

ARKANSAS

TITLE: Arkansas Wetlands Conservation and Restoration Policy
AGENCY: Arkansas Soil and Water Conservation Commission
101 E. Capitol
Little Rock, AR 72201
CONTACT: Dean Marlin
(501) 682-3913
FUNDING: Total project: \$167,257
EPA funding: 125,257
State match: 42,000

In 1992, four agencies (the Arkansas Soil and Water Conservation Commission, the Arkansas Game and Fish Commission, the Arkansas Department of Pollution Control and Ecology, and the Arkansas Natural Heritage Commission) initiated an Arkansas Wetland Management Strategy in the Cache River Watershed in eastern Arkansas. Arkansas will use this FY93 grant to extend the wetland inventory and evaluation to the rest of Arkansas. Arkansas will also develop a wetland mitigation plan for the State. The mitigation plan will address the steps to be taken before mitigation is allowed and address the general conditions to be placed on mitigation proposals. It will also design a mitigation banking proposal to allow effective off-site mitigation under some circumstances.

A statewide Geographic Information System (GIS) database, in cooperation with the Arkansas Gap Analysis project, will produce a statewide vegetation map. Deliverables are:

1. A Wetlands Mitigation Plan addressing tasks such as reducing loss of wetland values in the State; evaluating for mitigation lands in floodways; expediting project permit review process; and evaluating wetland functions and values.
2. A comprehensive State Wetlands Inventory accessible to the four agencies on GIS will be available for use in the Wetlands Mitigation Plan.

CALIFORNIA

TITLE: State Wetlands Conservation Plan Implementation

AGENCY: California Resources Agency

The Resources Building

Sacramento, CA 95814

CONTACT: Matt Mitchell

(916) 654-2753

FUNDING: Total project: \$125,000

EPA funding: 100,000

State match: 25,000

This grant will support policy implementation of the State Wetlands Conservation Plan developed under a 1992 Wetlands Grant. The workplan includes the following general tasks:

1. Wetlands planning;
2. New legislation and administrative actions;
3. Coordination of regulatory programs; and

4. Non-regulatory wetlands conservation initiatives.

CALIFORNIA

TITLE: California Riparian Habitat Conservation Program

AGENCY: Wildlife Conservation Board

801 K Street, Suite 806

Sacramento, CA 95814

CONTACT: David Martinez

(916) 445-1096

FUNDING: Total project: \$584,000

EPA funding: 150,000

State match: 434,000

The State will develop a statewide riparian inventory which will serve as a foundation for both the State Wetlands Conservation Plan and the Rivers Assessment Program. The Wildlife Conservation Board will identify existing data on riparian habitat, develop a riparian habitat classification system which incorporates the other systems used to collect existing data, develop a database architecture, and organize input into the new system. Case studies will be used to verify the procedures established.

CALIFORNIA

TITLE: Statewide Identification and Analysis of Wetland Resources for Conservation, Protection, and Management Planning

AGENCY: Department of Fish and Game

1416 Ninth St.

Sacramento, CA 95814

CONTACT: Susan Cochrane

(916) 324-8348

FUNDING: Total project: \$210,000

EPA funding: 150,000

State match: 60,000

This grant will fund the consolidation and quality verification of wetlands data scattered throughout various State, Federal, local, and private organizations. The consolidated wetlands data will be made available through the centralized Department of Fish and Game Geographic Information System. The consolidated data will be used in the development of the California Wetlands Conservation Plan, as well as for the activities of the California Biodiversity Executive Council. A California wetlands data gap analysis will be carried out as a part of this project to foster the effective use of resources for future data gathering.

CALIFORNIA

TITLE: Cosumnes River Watershed Protection Demonstration Project

AGENCY: Department of Fish and Game

1416 Ninth St.

Sacramento, CA 95814

CONTACT: Susan Cochran

(916) 324-8348

FUNDING: Total project: 139,500

EPA funding: 90,000

State match: 49,500

The Cosumnes River watershed is an important natural diversity resource for both public and private entities. The goal of this project is to conduct a watershed-wide analysis of the Cosumnes River's hydrological system and the biological diversity that depends on it. A hydrological model and aquatic ecology model will be developed for the watershed. This work will be the basis for determining riparian and land use relationships in future projects. The long-range goal for the California Department of Fish and Game in this watershed is to develop and promote public-private partnerships for high quality natural resource stewardship.

CALIFORNIA

TITLE: Implementation of the Regional Wetlands Management Plan

AGENCY: State Water Resources Control Board

901 P St.

Sacramento, CA 95814

CONTACT: Tim Stevens

(916) 657-1022

FUNDING: Total project: \$284,675

EPA funding: 200,000

State match: 84,675

This grant would support a State pilot project under which the Regional Board would take responsibility for implementing certain aspects of the Nationwide Permit Program under a State Program General Permit. The Regional Board is currently developing the plan for the pilot project under a 1992 grant, and would be expected to incrementally take on more responsibility in FY94. As a pilot initiative, this project will serve as a model for the other eight Regional Boards.

CALIFORNIA

TITLE: Development of a Watershed Management and Alternative Flood Control Plan for the Santa Margarita River

AGENCY: State Coastal Conservancy

1330 Broadway, Suite 1100

Oakland, CA 94612

CONTACT: Laurel Marcus

(510) 286-1015

FUNDING: Total project: \$350,000

EPA funding: 100,000

State match: 210,000

Local match: 40,000

The State Coastal Conservancy will develop flood control and engineering design criteria for the Santa Margarita River watershed which focus on the long-term preservation of wetland/riparian habitats and the maintenance of hydrologic balance in the watershed. Economic evaluation will also be included to provide a basis for negotiation and cost sharing between various levels of government and private parties.

CALIFORNIA

TITLE: San Joaquin River Wetland Protection

AGENCY: Department of Parks and Recreation

31426 West Highway 152

Santa Nella, CA 95322

CONTACT: John Kolb

(209) 826-1196

FUNDING: Total project: \$105,900

EPA funding: 44,000

State match: 61,900

This project will serve as a model of State agency implementation of recommendations of the State Wetlands Conservation Planning. The California Department of Parks and Recreation will conduct comprehensive management planning for State-owned lands along the San Joaquin River. This project would be coordinated with other watershed planning efforts for the river.

CALIFORNIA

TITLE: Multi-objective River Corridor Management Plan for the San Luis Rey River

AGENCY: State Coastal Conservancy

1330 Broadway, Suite 1100

Oakland, CA 94612

CONTACT: Lisa Ames

(510) 286-4088

FUNDING: Total project: \$58,677

EPA funding: 44,000

State match: 14,667

Work is under way to identify existing land uses and the condition of watershed resources (e.g., habitat quality, species diversity, mineral resources, and water quality) in the San Luis Rey River watershed. This grant would fund an inter-agency effort to define and prioritize watershed use and environmental issues, and to identify commonly accepted goals and objectives.

COLORADO

TITLE: Mining Water Quality Guidelines for Wetlands; Riparian/ Wetlands Classification; Groundwater Discharge for Wetlands; Colorado State Parks Wetland Management

AGENCY: Department of Natural Resources

1313 Sherman, Room 718

Denver, CO 80203

CONTACT: Kate Jones

(303) 866-4628

FUNDING: Total project: \$235,730

EPA funding: 178,976

State match: 41,754

Other: 15,000 The Nature Conservancy

Colorado has identified the following five areas of focus for addressing wetlands issues in 1994.

1. Water quality guidelines for wetlands associated with mining, using best management practices.
2. Wetland enhancement using artificial groundwater recharge.
3. Evaluation of pollution and related water issues affecting wetlands.
4. Riparian classification from a watershed approach.
5. Inventory of Colorado State Parks wetlands and development of management criteria for these wetlands.

CONNECTICUT

1. issues of ecological and operational management;
2. public or private ownership, including the feasibility of public/private joint ventures and licensing of privately owned/operated compensatory mitigation banks; and
3. identification and development of necessary incentives or investment opportunities which would lead to establishing compensatory mitigation banks.

DELAWARE

TITLE: Improving Delaware's Current Wetlands and Subaqueous Lands Regulatory Program through Jurisdictional and Compliance Requirements

AGENCY: Department of Natural Resources and Environmental Control

Division of Water Resources

Surface Water Management Section

89 Kings Highway, P.O. Box 1401

Dover, DE 19903

CONTACT: Robert Zimmerman

(302) 739-5726

FUNDING: Total project: \$58,348

EPA funding: 45,000

State match: 13,348

The objective of this project is to improve both the surveillance and compliance components of Delaware's existing subaqueous and tidal wetlands programs through development of improved compliance tracking and Federal/State coordination mechanisms for waters of overlapping jurisdiction. An additional objective is to enhance the coordination and minimize, to the extent possible, duplicative enforcement activities between overlapping State and Federal wetland/waterway programs. The procedural elements developed under this project will be applicable to other similar program situations of other States.

FLORIDA

TITLE: Statewide Wetlands Management Computer System Integration System Design and Development

AGENCY: Florida Department of Environmental Regulation

2600 Blair Stone Road

Tallahassee, FL 32399-2400

CONTACT: James Stoutamire

(904) 488-0130

FUNDING: Total project: \$213,334

EPA funding: 160,000

State match: 53,334

Florida is currently in the process of a long-term effort to consolidate the wetlands permitting programs in anticipation of a decision to pursue assumption of the Section 404 permit program or to develop a

State Program General Permit. As part of this effort to streamline the permit process, Florida will integrate the Department of Environmental Regulation's (DER) and the Water Management District's (WMD) computerized permit processing, compliance/enforcement tracking, and wetlands database management systems. The final product will be a data exchange mechanism between DER and the South Florida WMD and standards and specifications for a similar mechanism with the other four WMDs.

This project will enable effective State oversight of any permit programs delegated to the WMDs, as well as assist the State in assessing cumulative impacts of wetland permit decisions. It will also provide accurate analysis on the status of wetlands for the Section 305(b) reports, and will enable management decisions, including habitat restoration planning, on a watershed basis.

FLORIDA

TITLE Mapping Wetland Habitats of High Priority to Threatened and Endangered Species in Florida

AGENCY: Florida Game and Fresh Water Fish Commission

620 South Meridian Street

Tallahassee, FL 32399-1600

CONTACT: Randy Kautz

(904) 488-6661

FUNDING: Total project: \$113,701

EPA funding: 76,600

State match: 37,101

The objectives of this project are to:

1. develop maps and Geographic Information

System products of Florida wetlands important to the long-term survival of wetland-dependent species listed as endangered, threatened, or of

special concern by the State of Florida.

2. distribute 1:126,720 scale maps of important wetlands in each county to regulatory agencies including the Department of Environmental Regulation, Florida Water Management Districts, Corps of Engineers, Fish and Wildlife Service, and the Environmental Protection Agency.

GEORGIA

TITLE: Watershed Protection Demonstration Project for Ebenezer Swamp

AGENCY: Georgia Department of Natural Resources

Game and Fish Division

205 Butler Street, S.E., Room 1252

Floyd Towers East

Atlanta, GA 30334

CONTACT: Jonathan Ambrose

(404) 918-6411

FUNDING: Total project: \$100,572

EPA funding: 75,422

State match: 25,150 Department of Natural Resources

The Georgia Conservancy

The objective of this Watershed Protection Demonstration Project is to provide an information base to define measures for protecting and reversing the current trend of degradation for the Ebenezer Creek watershed. Project tasks will include:

1. conducting a biodiversity assessment and evaluating sediment oxygen demand and the extent of oxygen-demanding sediments in lower Ebenezer Creek and its associated wetlands.
2. a land use trends analysis will be conducted and all significant point and non-point sources of nutrient enrichment in the watershed will be identified.
3. a digital database for the watershed will be developed, including digitized National Wetlands Inventory data.
4. a workshop to disseminate the project findings to local governmental officials and the general public will be conducted in order to determine appropriate measures for protecting the resource.

IDAHO

TITLE: Development of a 401 Certification Program
AGENCY: Idaho Division of Environmental Quality
1410 North Hilton
Boise, ID 83706
CONTACT: Helen Rigg
(208) 334-5860
FUNDING: Total project: \$98,950
EPA funding: 79,160
State match: 19,790

This grant provides funding for the State 401 certification coordinator to develop a 401 certification enforcement manual, provide 401 certification training to State regional offices, develop guidance to standardize State certification review methods, procedures and standards, and to develop a State database of 401 certifications.

ILLINOIS

TITLE: Endangered Species Wetland Recovery Plan
AGENCY: Illinois Department of Conservation
Division of Natural Heritage
524 S. Second Street
Springfield, IL 62701-1787
CONTACT: Deanna Glosser
(217) 785-8290
FUNDING: Total project: \$58,907
EPA funding: 44,180
State match: 14,727

The Department of Conservation will begin development of a Wetland-Dependent Endangered Species Recovery Plan. The focus of the Plan will be on the rookeries within the State and the areas surrounding them that serve as essential feeding areas. The wetlands and other endangered species existing within the feeding areas of a rookery will be identified and a protection plan prepared for selected complexes. The goals of the Plan will include the protection and enhancement of the threatened and endangered species within delineated areas and the wetlands that serve as their essential habitat. Municipalities, developers, public agencies, environmental organizations and individual landowners will be involved in the development of the Plan.

ILLINOIS

TITLE: Watershed Approach to Wetland Protection Planning

**AGENCY: Illinois Department of Conservation
Division of Planning**

524 S. Second Street

Springfield, IL 62701-1787

CONTACT: Marvin Hubbell

(217) 782-3715

FUNDING: Total project: \$159,759

EPA funding: 124,085

State match: 35,674

The Department of Conservation will prepare a demonstration watershed protection plan for the Cache River watershed in southern Illinois. The planning effort will include public and private agencies as well as individual landowners. The plan will address a broad spectrum of integrated resource management problems in the watershed, including soil erosion and water quality. A procedure manual will be developed that provides guidance on the approach used to develop the plan and the successes and failures of that approach. The document is intended for State agencies and

local watershed interest groups.

INDIANA

TITLE: Indiana State Wetland Conservation Plan

AGENCY: Indiana Department of Natural Resources

402 W. Washington Street

Indianapolis, IN 46204

CONTACT: Edward L. Hansen

(317) 233-3854

FUNDING: Total project: \$210,190

EPA funding: 168,152

State match: 42,038

The Indiana Department of Natural Resources will develop a Wetland Conservation Plan. Through development of this plan the State hopes to provide a more workable and efficient wetland conservation program at the State level. The development of this plan will provide the public and other State agencies an opportunity to participate in development of a State wetland protection strategy.

IOWA

TITLE: Iowa Great Lakes Watershed Protection Approach Project

AGENCY: Iowa Department of Natural Resources

Environmental Protection Division

Wallace State Office Building

900 East Grand

Des Moines, IO 50319-0034

CONTACT: Mark J. Slatterly

(515) 281-5697

FUNDING: Total project: \$124,096

EPA funding: 98,233

State match: 25,863 The Iowa Natural Heritage Foundation

The purpose of this grant is to provide a comprehensive planning mechanism to further wetland restoration in the Great Lakes watershed via water quality monitoring, restoration site prioritization, and public education. Project objectives are:

1. Rate and rank inventoried wetlands based on ability to improve water quality in the area.
2. Identify protection, prevention, and restoration needs of high priority wetlands using the technically based landscape restoration plan.
3. Coordinate efforts of interested groups to assist in planning and implementation.

4. Monitor the changes in select water quality parameters with local volunteers, both during and after implementation of the wetlands protection plan.
5. Educate landowners and the general public about the values of wetlands and how restoration will improve quality.
6. Develop planning, implementation, and public education capabilities that can be offered to soil and water conservation districts across the State.

KANSAS

TITLE: Watershed Protection Approach to Water Resource Management

AGENCY: Kansas State Conservation Commission

Suite 500, 109 SW Ninth Street

Topeka, KS 66612-1249

CONTACT: Tracy Streeter

(913) 296-3600

FUNDING: Total project: \$190,479

EPA funding: 137,960

State match: 40,130 State Conservation Commission

State Board of Agriculture

Department of Wildlife and Parks

State and Extension Forestry

Other: 12,389 Sedgewick County Conservation District

Sedgewick County Department of Administration and Public Service

Sedgewick County Cooperative Extension Service

City of Wichita

This grant will be used for two different tasks: Watershed Protection and Wetlands and Riparian Area Coordination. To provide watershed protection, a local task force will expand planning efforts to include the watershed as well as the wetland complex. The County Conservation District will obtain data within the Pracht wetland in order to develop a Comprehensive Watershed Management Plan (CWMP). A public outreach program and a CWMP will also be developed for the Cadillac Lake Basin.

The second task will be to coordinate efforts dealing with Wetlands and Riparian areas. The first step in this task will be to develop local protection programs via the county conservation districts. To do this, two State priority counties in two regions of the State will be chosen to initiate model protection plans for both riparian areas and wetlands. After these models are observed, the second step will be to assist the remaining 98 Kansas Counties to develop CWMPs. For the third and final step, the Kansas State Conservation Commission will assist conservation and watershed districts to develop a protocol and a training program build staff skills. The goal of the training is to facilitate the Clean Water Act Section 404 permitting process when complex and controversial resource issues are raised.

KANSAS

TITLE: 1993 Wetland and Riparian Areas Project
AGENCY: Kansas Department of Wildlife and Parks
Route 2, Box 54A
Pratt, KS 67124
CONTACT: Eric Schenck
(316) 672-5911
FUNDING: Total project: \$55,091
EPA funding: 41,182
State match: 13,909

An interagency work group developed State wetland and riparian resource management goals and strategies with a previous EPA State Wetland Protection Development Grant. This project proposes three strategies to achieve the State's goals.

These strategies include:

1. Increase implementation of wetland and riparian area Best Management Practices via the development of "fact sheets."
2. Integrate several existing water resource program databases for use in program decision-making.
3. Develop an interagency watershed monitoring program focusing on in-stream and near-stream biotic components.

KANSAS

TITLE: Wetland and Riparian Forestry Assistance
AGENCY: Kansas State and Extension Forestry
2610 Claflin Road
Manhattan, KS 66502-2798
CONTACT: John Strickler
(913) 537-7050
FUNDING: Total project: \$112,247
EPA funding: 89,797
State match: 22,450

This project enables the State forestry agency, Kansas State and Extension Forestry, to focus efforts on wooded wetlands and riparian areas. By providing technical support to several local agencies and numerous individual landowners, State and Extension Forestry will facilitate the long-term management

and protection of these critical wetland types for multiple resource benefits.

Objectives of the project are:

1. Promote the use of fully-functioning wooded wetlands and riparian areas to manage and protect water resources.
2. Provide technical assistance to landowners using forestry-related Best Management Practices to implement local wetlands and riparian areas management plans.
3. Facilitate active riparian forest management and protection as part of community and urban forestry programs.
4. Demonstrate that the production of forest products in well-managed riparian zones provide alternatives to traditional clear-and-crop operations as a means of producing income on riparian areas.

LOUISIANA

TITLE: Wetlands Education Outreach Program

AGENCY: Louisiana Agricultural Center

Louisiana Cooperative Extension Service

Baton Rouge, LA 70894-5100

CONTACT: Paul Coreil

(504) 388-2266

FUNDING: Total project: \$69,066

EPA funding: 50,580

State match: 18,486

The purpose of this project is to integrate wetlands into the traditional Louisiana Cooperative Extension Service natural resource education program. The education program will provide information on wetland values and functions, constructing and/or restoring wetlands, government programs offering funding incentives for wetland conservation projects, and wetland planning and implementation. Technical guidance will be provided regarding best management practices that will reduce non-point source pollution in wetland areas, especially the Tensas Delta region of northeast Louisiana.

LOUISIANA

TITLE: Louisiana Statewide Wetlands Conservation and Management Strategy

AGENCY: Louisiana Department of Natural

Resources

P.O. Box 94396

Baton Rouge, LA 70804-9396

CONTACT: Cheryl Bennett

(504) 342-4539

FUNDING: Total project: \$295,000

EPA funding: 220,000

State match: 75,000

This project will lead to a comprehensive State Wetlands Conservation Plan (SWCP). Completion of the SWCP, together with the background information developed by the Department of Natural Resources through previous EPA financial assistance, will provide the foundation upon which the State will work toward development of a comprehensive wetland protection program in Louisiana. The task areas of this project are:

Task 1. An Inventory of Louisiana's Wetlands Resources. Products to include a definition and classification of Louisiana's wetland habitat types, a descriptive map showing locations and types of wetlands, a catalog of potential restoration areas, the actions necessary to accomplish this

restoration, and a prioritized list of knowledge gaps needing further investigations.

Task 2. An Analysis of Current Wetland Protection and Restoration Efforts in Louisiana and an Evaluation of Innovative Methods to Augment Existing Programs.

Task 3. Develop an Action Plan. Deliverables include funding alternatives and drafts of any necessary new legislation.

MAINE

TITLE: Natural Resources Protection Act Education and Technical Assistance Program

AGENCY: Department of Environmental Protection

Bureau of Land Quality Control

State House Station 17

Augusta, ME 04333

CONTACT: Bill Laflamme

(207) 287-2111

FUNDING: Total project: \$99,791

EPA funding: 74,291

State match: 25,500

This grant will support the Department of Environmental Protection's development of a public education and technical assistance program. Products to be developed include a Citizen's Guide to Wetland Protection and Natural Resources Protection Act; Wetland Issue Profiles (fact sheets); a Wetlands Protection Slide Show; and development and implementation of a Technical Training Strategy for staff.

MAINE

TITLE: Survey and Development of GIS Data for Regionally Rare

Wetland Species and Communities in Maine

AGENCY: Maine Natural Heritage Program

Office of Community Development

219 Capitol Street, Station 130

Augusta, ME 04333
CONTACT: John Albright, Director
(207) 624-6800
FUNDING: Total project: \$74,656
EPA funding: 54,576
State match: 20,080

This project is intrinsically tied to the Department of Inland Fisheries and Wildlife and Natural Heritage Program's joint efforts to develop Wetland Conservation Reserves in southern Maine. The data generated under this and a FY92 grant will be incorporated into the Reserve project. Additionally, this work supports the collective efforts of all six Natural Heritage Programs across New England, in partnership with The Nature Conservancy, to develop a comprehensive, region-wide database of rare wetland species and communities. Specifically, this project will provide state-wide data which is critical to the regulatory protection of State and globally rare wetland resources in Maine.

MAINE

TITLE: Identification and Protection of Ecologically Significant Wetlands in Southern Maine--
Development of Wetland Conservation Reserves
AGENCY: Department of Inland Fisheries and Wildlife
Endangered Species Program
P.O. Box 1298
Bangor, ME 04402-1298
CONTACT: Mark McCollough
(207) 941-4475
FUNDING: Total project: \$171,829
EPA funding: 105,085
State match: 66,744

This project consists of two phases:

1. A comprehensive field survey of State and Federally listed endangered species and rare wetland community types, and
2. Geographic Information System (GIS) landscape analysis to identify a series of primary and satellite wetland reserves.

Long term protection plans will be designed for each reserve. FY93 funds will enable the Department of Inland Fisheries and Wildlife to complete the survey of rare wetland species and communities in the State of Maine as well as conduct the GIS landscape analysis.

MAINE

TITLE: Demonstration Project to Study Cranberry Farming in Upland Areas

AGENCY: Department of Agriculture, Food and Rural Resources

Deering Building, State House Station 28

Augusta, ME 04333-0028

CONTACT: John Harker

(207) 287-7618

FUNDING: Total project: \$66,665

EPA funding: 50,000

State match: 16,665

Test plots will be developed to determine the applicability of new cranberry farming practices to Maine's upland soil types. This project has the potential to prevent further degradation to wetlands in Maine and potentially throughout similar areas in the Northeast by providing growers with performance standards for non-wetland cranberry production.

MAINE

TITLE: State Wetlands Conservation Plan and Strategy

AGENCY: Maine State Planning Office

Natural Resources Policy Division

184 State Street

State House Station 38

Augusta, Maine 04333

CONTACT: James Bernard

(207) 287-3261

FUNDING: Total Project: \$100,000

EPA Funding: 75,000

State Match: 25,000

The Maine State Planning Office will develop a Maine Wetland Conservation Plan in cooperation with all Federal, State, local and non-profit entities involved in protecting Maine's wetlands, as well as interested private parties and citizens. Once developed, the Wetland Conservation Plan will provide the basis for an integrated approach to managing the State's wetland resources, through both regulatory and non-regulatory measures.

MARYLAND

TITLE: Wetland Identification Training Program
AGENCY: Maryland Department of Natural Resources
Water Resources Administration
Nontidal Wetlands & Waterways Division
Tawes State Office Building E-2
Annapolis, Maryland 21401
CONTACT: Denise Clearwater
(410) 974-3841
FUNDING: Total project: \$30,553
EPA funding: 16,024
State match: 14,529

The objective of this grant is to cooperatively develop and implement six courses that provide basic and advanced training on the wetland resource and how to identify that resource. These courses will offer State, county, local and other public sector personnel an opportunity to develop new skills and strengthen existing ones. This enhanced program will be developed with the assistance of the joint training committee composed of the Maryland Department of Natural Resources (Water Resources Administration), Soil Conservation Service, Corps of Engineers, Environmental Protection Agency and the Fish and Wildlife Service. A uniform program will provide for the consistent identification of wetlands and result in improved protection in the State. Other States may find it useful to adapt this approach to their training programs.

MARYLAND

TITLE: Preparation of Mitigation Guidance Documents and Monitoring Protocol
AGENCY: Maryland Department of Natural Resources
Water Resources Administration
Nontidal Wetlands & Waterways Division
Tawes State Office Building E-2
Annapolis, Maryland 21401
CONTACT: Denise Clearwater
(410) 974-3841
FUNDING: Total project: \$207,686
EPA funding: 137,820
State match: 69,866

This grant will allow for more effective and consistent nontidal wetlands mitigation implementation and monitoring of completed projects. Products developed under this proposal will be used by State and local

government staff, permittees, consultants, and private citizens to develop and measure completed mitigation projects to ensure their success as functioning wetlands and help meet a goal of "no net loss" of wetlands in Maryland. The grant will develop technical documents with standard criteria, training materials and a protocol that can be used by applicants during early planning stages and in the application review stage to initially propose mitigation projects and provide sufficient information that can be reviewed and accepted by the State permit agency. Such guidance will reduce the need to request additional information and expedite the permit review process.

MASSACHUSETTS

TITLE: Integrating 401(c) Water Quality Certification into the Wetlands Protection Program

AGENCY: Executive Office of Environmental Affairs

Department of Environmental Protection

Bureau of Resource Protection

One Winter Street

Boston, MA 02108

CONTACT: Peg Brady

(617) 566-1114

FUNDING: Total project: \$113,616

EPA funding: 84,712

State match: 28,904

The Department of Environmental Protection (DEP) will develop 401 Water Quality Certification regulations that will integrate the 401 process with the Wetlands Protection Act, and develop a 401 public outreach program. This project marks the final phase of DEP's integration of their 401 and wetlands protection programs. Additional products to be developed include: 401 training sessions, a permit tracking and analysis system, and an updated list and revised maps of Outstanding Resource Waters throughout the Commonwealth.

MASSACHUSETTS

TITLE: Identification and Protection of Globally Significant Wetland Communities in Massachusetts

AGENCY: Division of Fisheries and Wildlife

Natural Heritage and Endangered Species Program

100 Cambridge Street

Boston, MA 02202

CONTACT: Pat Swain

(617) 727-9194

FUNDING: Total project: \$50,635

EPA funding: 38,400

State match: 12,235

This project will enhance the classification of three natural wetland communities that are rare in Massachusetts, and throughout New England: coastal plain pond shores, calcareous wetlands, and atlantic white cedar swamps. A systematic inventory of these communities will be conducted, beginning in areas where threats from development are the greatest. This project will result in immediate protection of these areas throughout the Commonwealth under rare wetland species and communities provisions of both the Massachusetts Endangered Species Act and the Wetlands Protection Act. This project will be part of six State Natural Heritage Programs and The Nature Conservancy's efforts to generate a region-wide map and classification of rare wetland community types throughout New England.

MASSACHUSETTS

TITLE: Improving the Analysis and Delivery of Information

Related to Wetlands Threats and Impacts

AGENCY: Division of Fisheries and Wildlife

Riverways Program

100 Cambridge Street

Boston, MA 02202

CONTACT: Maria VanDusen

(617) 727-1640 x360

FUNDING: Total project: \$39,266

EPA funding: 29,450

State match: 9,816

The Riverways Program will develop a computerized Decision Support System to guide planning, management and regulatory decisions at the local and State levels in the Assabet River watershed. Available ecological information on riparian corridors and their adjacent wetlands will be entered into the Massachusetts Geographic Information System database. This information, in conjunction with the application of non-point source predictive models, will assist in the identification of wetland areas most vulnerable to the impacts of non-point source pollution. It is these areas for which the establishment of protective vegetative buffers will be a top priority.

MASSACHUSETTS

TITLE: New England Wetlands Hydrology and Wildlife Training

AGENCY: Executive Office of Environmental Affairs

100 Cambridge Street

Boston, MA 02202

CONTACT: Richard Taupier

(617) 727-9800 x260

FUNDING: Total project: \$13,817

EPA funding: 10,000

State match: 3,817

This project will offer high quality training to State wetland program staff on subjects such as wetland hydrology and wildlife assessment methodologies. Through this grant, the Executive Office of Environmental Affairs will contract with the University of Massachusetts, Environmental Institute, to develop and offer two courses to the wetlands staff of all six New England State wetlands programs.

MINNESOTA

TITLE: Minnesota Joint Agency State Comprehensive Wetlands Protection Plan

AGENCY: Minnesota Department of Natural Resources (Lead Agency)

500 Lafayette Road

St. Paul, MN 55155

Cooperating agencies include:

Minnesota Board of Water and Soil Resources

Minnesota Pollution Control Agency

CONTACT: Doug Norris

(612) 296-0779

FUNDING: Total project: \$464,344

EPA funding: 270,530

State match: 193,814

Minnesota agencies responsible for wetland management will develop a blueprint to integrate wetlands protection in Minnesota. The Minnesota Department of Natural Resources (DNR), Pollution Control Agency (MPCA) and Board of Water and Soil Resources (BWSR), have agreed to work cooperatively toward completion of this "blueprint."

The DNR will coordinate the effort to prepare a comprehensive wetlands conservation plan. The MPCA will facilitate integration of wetland water quality considerations and standards into the comprehensive wetland conservation plan, and into Minnesota's newly developing basin planning initiative. The MPCA will also evaluate the feasibility of developing biological criteria to monitor and assess wetland quality.

BWSR will implement a training program to develop an effective wetland delineation training team, and develop a computer interface with Minnesota's state-supported Geographic Information System. The project will also entail a pilot study for a statewide inventory of drained wetlands and ditches.

MISSISSIPPI

TITLE: Development of an EMAP Statewide Wetlands Database for Improved Watershed and Statewide Planning, Wetlands Regulatory Programs, and Monitoring and Reporting Programs

AGENCY: Mississippi Department of Environmental Quality

Office of Pollution Control

P.O. Box 10385

Jackson, MS 39289-0385

CONTACT: Robert Seyfarth

(601) 961-5160

FUNDING: Total project: \$297,133 EPA funding: 222,850 State match: 74,283 MS Automated Resource Information System (MARIS) Department of Wildlife, Fisheries, and Parks Forestry Commission Department of Transportation The Department of Environmental Quality (DEQ) will develop current land use data sets and maps of the State using satellite image processing techniques. This will enable the DEQ and multiple agencies including the Mississippi Department of Transportation, the Forestry Commission, the Department of Wildlife, Fisheries and Parks, and the Mississippi Automated Resource Information System (MARIS) to better protect State wetland resources. The products of this project are to include Landsat TM data, LU/LC classification, hardcopy maps and statistical reports, Geographic Information System coverage of State hydrologic units and physiographic regions.

MISSOURI

TITLE: Riparian Forest Management Planning

AGENCY: Missouri Department of Conservation

P.O. Box 180

Jefferson City, MO 65102-0180

CONTACT: Richard E. Wehnes

(816) 751-4115

FUNDING: Total project: \$266,283

EPA funding: 199,712

State match: 66,571

This grant provides technical information on riparian corridors in northeastern Missouri that will aid in

development of riparian corridor management guidelines based on scientific knowledge. The addition of riparian forest management practices into existing plans and programs will facilitate restoration and wise use of Missouri's riparian areas. Project objectives are: 1. Conduct a riparian forest inventory of live and dead vegetation, soil profiles, soil water properties, geomorphic surface areas, and species composition and abundance of riparian wildlife.

2. Develop a list of key criteria to evaluate riparian corridor value and an index of relative quality.

3. Establish criteria to assess the hydrologic effects of northern Missouri forests on stream channel dynamics.

4. Recommend management guidelines to improve corridor values.

MONTANA

TITLE: State Wetland Conservation Plan

AGENCY: Department of Health and Environmental Sciences

Water Quality Bureau

Cogswell Building

1400 Broadway

Helena, MT 59620

CONTACT: Jack Thomas

(406) 444-5319

FUNDING: Total project: \$267,036

EPA funding: 190,316

State match: 66,719

This is an interagency project under the lead of the Department of Health and Environmental Sciences (DHES) (Water Quality Bureau) to develop a State Wetland Conservation Plan for the State of Montana. Some project components are listed below:

1. Development and Implementation of a State Wetland Conservation Strategy. The DHES will develop and implement a strategy that will clearly define the role(s) of each agency in administering regulatory and non-regulatory programs to better coordinate wetland conservation programs on a statewide basis.

2. Water Quality/Biological Criteria and Bio-assessment Protocols. Baseline sampling and analysis will be conducted to determine water quality and biological condition standards to be later applied to degraded wetlands.

3. Wetlands Discovery Activity and Management Project. The goal of this component is to develop an integrated wetlands curriculum for children pre-school to grade 3; and to develop educational and outreach materials for a broad public.

4. Wetlands Delineation Alternatives and Wetlands Delineation Training Course. Provide training for those involved in protecting and managing wetland resources using a strong science component.

5. Montana Riparian Association. This interagency effort was formed with the objective to better manage, classify, gather data, and educate about riparian-wetland ecosystems.

NEVADA

TITLE: Wetlands Conservation Plan Applicable to State Wildlife Areas

AGENCY: Nevada Department of Wildlife

1100 Valley Road, P.O. Box 10678

Reno, NV 89520-0022

CONTACT: Terry E. Retterer

(702) 688-1562 FUNDING: Total project: \$274,962

EPA funding: 205,000

State match: 69,962

The Nevada Department of Wildlife will develop a State Wetlands Conservation Plan (Plan) for State-controlled wetlands. The Plan will provide the necessary wetlands policy and guidelines for the development and adoption of protective statutes and regulations by the State Legislature applicable to all wetlands in the State.

NEW HAMPSHIRE

TITLE: Incorporation of Microfilm and Geographic Information System Technologies into Permit Review and Enforcement

AGENCY: Department of Environmental Services

Wetlands Bureau

P.O. Box 2008

Concord, NH 03302-2008

CONTACT: Kenneth Kettenring

(603) 271-2147

FUNDING: Total project: \$144,149

EPA funding: 107,159

State match: 36,990

This project is divided into two tasks:

1. The development of a microfilm library for documentation of the Department of Environmental Service's (DES) Wetlands Bureau's permitting and enforcement activities, and 2. The development of improved permitting and enforcement review procedures using Geographic Information System technology.

Both of these activities will significantly enhance DES' ability to protect and regulate wetlands in New

Hampshire. This project also builds upon the developing State Program General Permit tracking system funded under a FY92 grant.

NEW HAMPSHIRE

TITLE: Wetlands Identification Mapping for New Hampshire Municipalities

AGENCY: Office of State Planning

2 1/2 Beacon Street

Concord, NH 03301

CONTACT: James McGlaughlin

(603) 271-2155

FUNDING: Total project: \$40,055

EPA funding: 30,000

State match: 10,055

Under a FY92 grant, high quality wetland resource maps were produced for five Regional Planning Districts. The remainder of the State will be covered under this grant. This state-wide database will provide municipalities with information critical to the protection of wetlands at the local level, particularly through Prime Wetland designations. The maps will also be used to develop local wetland inventories and local zoning and wetland by-laws.

NEW HAMPSHIRE

TITLE: Technical Assistance for Regional Planning Commissions

and Municipalities to Inventory and Protect Prime Wetlands in the Merrimack River Watershed

AGENCY: Office of State Planning

2 1/2 Beacon Street

Concord, NH 03301

CONTACT: James McGlaughlin

(603) 271-2155

FUNDING: Total project: \$49,550

EPA funding: 37,175

State match: 12,375

The New Hampshire Office of State Planning, in conjunction with the New Hampshire Audubon Society, will assist several municipalities in their efforts to develop stronger local wetland protection programs. Specifically, municipal wetland maps will be prepared, and assistance will be provided in developing

appropriate local protection tools, including the designation of prime wetlands and the preparation of comprehensive wetland protection plans.

NEW HAMPSHIRE

TITLE: Identification and Protection of Regionally Significant Wetland Natural Communities in New Hampshire

AGENCY: New Hampshire Natural Heritage Program

172 Pembroke Road

Concord, NH 03302

CONTACT: Dan Sperduto

(603) 271-3623

FUNDING: Total project: \$26,871

EPA funding: 19,871

State match: 6,624

In New England a preliminary list of the most threatened globally significant wetland community types has been developed. The New Hampshire Natural Heritage Program will expand upon this work by conducting a systematic inventory of calcareous, non-forested wetlands and fens throughout New Hampshire. The primary objective of this project is to identify and assess locations of these community types and to initiate their protection. The information generated by this project will greatly enhance the State's ability to protect these wetlands. In addition, this project is part of a regional effort by all six State Natural Heritage Programs and The Nature Conservancy to generate a region-wide map and classification of rare wetland community types throughout New England.

NEW JERSEY

TITLE: Communications Link with the Pinelands Commission

AGENCY: Department of Environmental Protection and Energy Office of Regulatory Policy

CN 029

401 E. State Street

Trenton, NJ 08625-0029

CONTACT: Steven Whitney

609-984-0058

FUNDING: Total project: \$31,250

EPA funding: 25,000

State match: 6,250

This project would provide a direct computer link between the Pinelands Commission and New Jersey Department of Environmental Protection and Energy (NJDEPE) Land Use Regulation Elements's Local Area Network and the Geographic Information System. The Pinelands Commission will transmit records of permit authorization to NJDEPE on a monthly basis and provide immediate notification of denials of authorization. Enforcement cases will also be coordinated. The link will also be used during the mapping in the Pinelands area.

The State is adopting a Memorandum of Agreement with the Pinelands Commission in order to establish procedures for permitting in the Pinelands without unnecessary duplication. As a result, the Pinelands Commission will be performing jurisdictional determinations of waters of the United States for purposes of the State program. In addition, the Pinelands Commission will be authorizing the use of Statewide General permits in the Pinelands Area.

NEW JERSEY

TITLE: Monitoring the Effect of Watershed Disturbance on the Long-Term Biological Integrity of Aquatic Bed and Emergent Wetland Communities in the New Jersey Pinelands

AGENCY: New Jersey Pinelands Commission

15 Springfield Road

P.O. Box 7

New Lisbon, NJ 08064

CONTACT: Dr. Robert Zampella

(609) 894-9342

FUNDING: Total project: \$66,979

EPA funding: 53,583

State match: 13,396

This will be part of a long-term program to monitor the quality of aquatic bed and emergent wetland communities of selected Pinelands streams. It will contribute to the Pineland Commission's watershed management programs as well as increase the knowledge of the relationship between surface water quality and wetland integrity. Three objectives of this project are:

1. To complete a comprehensive baseline inventory of aquatic bed and emergent wetland species composition and diversity;
2. To relate species richness and composition to stream water quality and other abiotic factors; and
3. To develop a wetland species-based method for assessing the biological integrity of Pinelands streams.

NEW MEXICO

TITLE: Wetlands Protection Project in the Upper and Middle Rio Grande Watershed

AGENCY: New Mexico Environment Department

1190 St. Francis Drive

Santa Fe, NM 87502

CONTACT: David Coss

(505) 827-2793

FUNDING: Total project: \$110,512

EPA funding: 84,410

State match: 26,102

A project to inventory and classify riparian/wetland communities in the Pecos River watershed was initiated in 1992. This project is to work in the upper and middle Rio Grande watershed from the Colorado state line south to the Bosque del Apache National Wildlife Refuge in 1993 and 1994, including the Rios Chama, Puerco and Salado.

The purpose of this project is to: 1. conduct field sampling to classify riparian/wetland vegetation, soils and hydrology into community types within the upper and middle Rio Grande watershed.

2. describe general physiographic, edaphic, and floristic features of each riparian community type identified in the classification.

3. describe successional trends and management opportunities for each community type, to the extent possible.

4. identify ecologically significant riparian/wetland sites for possible special management status.

NEW YORK

TITLE: Wetlands and Open Space Handbook for Local Governments

AGENCY: Department of Environmental Conservation

Division of Fish and Wildlife

50 Wolf Road

Albany, NY 12233-4757

CONTACT: Patricia Riexinger

(518) 457-9713

FUNDING: Total project: \$80,000

EPA funding: 60,000

State match: 20,000

The Department of Environmental Conservation will develop a handbook and technical assistance

package to help local governments establish local goals for open space and wetlands conservation. This will help to identify acquisition priorities, focus on multi-objective conservation, and integrate existing zoning and planning policies with conservation strategies. The handbook will also help localities to develop their own selection systems to allocate resources and to help them identify those wetlands sites that will be the focus of conservation efforts.

NEW YORK

TITLE: Evaluation Success of Small Marsh Development Projects

AGENCY: Department of Environmental Conservation Division of Fish and Wildlife

50 Wolf Road

Albany, NY 12233-4757

CONTACT: Patricia Riexinger

(518) 457-9713

FUNDING: Total project: \$28,000

EPA funding: 21,000

State match: 7,000

In the late 1940's small wetlands of about four to 10 acres were constructed for habitat across New York. This project will evaluate the long-term success of created wetlands by studying the current status of those wetlands and the functions they are performing. It will help refine regulatory mitigation policies based on the successes or failures of these constructed wetlands. A report will be submitted evaluating all of the studied wetlands and provide recommendations concerning mitigation policies.

NEW YORK

TITLE: Watershed Protection for Adirondack Wetlands: A Demonstration-Level GIS Characterization of Subcatchments of the Oswegatchie-Black River Watershed

AGENCY: Adirondack Park Agency

P.O. Box 99

Route 86

Ray Brook, NY 12977

CONTACT: Edward Hood

(518) 891-4050

FUNDING: Total project: \$184,035

EPA funding: 126,100

State match: 29,935 Adirondack Park Agency

Other: 43,000 State University of New York at Plattsburg
Adirondack Lakes Survey Corporation

This project will develop a digital wetlands/watershed base for the Oswegatchie-Black River watershed, one of the major subcatchments of the Adirondack Park. This effort will provide a database upon which to examine factors linking watershed characteristics, water quality, landscape, and wetland properties. These data will provide a basis upon which to make policy decisions, including guidelines for development in lake watersheds and the importance of long range transport of air pollutants.

This is a demonstration-level effort intended to produce a model that will subsequently have broad scale application and transfer value to other watersheds in the Adirondack Park and to other States. A report will be produced summarizing and analyzing the following items:

1. Accurate wetland and watershed maps of the area
2. A digital Geographic Information System (GIS) database
3. Summary tables describing wetland cover types, acreage, and their correlation to watershed properties
4. Thematic maps showing the locations of critical wetlands and watersheds with sensitive properties
5. Graphics and maps developed for particular regional or local government areas, depending on the interest or need expressed during public outreach functions.

NORTH CAROLINA

TITLE: Development of a Comprehensive Statewide Wetlands Database for Improved Watershed and Statewide Planning, Wetlands Regulatory Programs, and Monitoring and Reporting Programs

AGENCY: North Carolina Governor's Office of State Planning Center for Geographic Information and Analysis

512 North Salisbury Street

Archdale Building - Room 1125

Raleigh, NC 27604

CONTACT: Zsolt Nagy

(919) 733-2090

FUNDING: Total project: \$421,242

EPA funding: 315,932

State match: 105,310

This grant will be a three year effort between the Division of Environmental Management and the Center for Geographic Information and Analysis. The statewide and regional distribution of wetland values, wetland types, and wetland acres and the accuracy of various wetland maps will be determined. This project will form the basis of a future statewide comprehensive wetland plan. Additionally, it will strengthen the implementation capabilities of existing wetlands protection programs in the State

including the 401 Water Quality Certification Program, water quality standards for wetlands, the Section 305(b) reporting requirements, the Outstanding Resource Wetlands Classification program, and the North Carolina Basinwide Management Permitting Program.

Landsat-Thematic Mapper satellite data will be used to determine wetland status statewide. Extensive field verification of the TM data will be conducted in the geographic areas of the coastal plain, piedmont and mountains. The final products of this project include a statistically valid field sampling and inventory of wetland status, types and values, and a statewide land cover data layer for the corporate Geographic Information System (GIS) database. Map products will benefit multiple agencies including the Environmental Protection Agency, the Corps of Engineers, NC Division of Coastal Management, and NC Wildlife Resources Commission.

NORTH DAKOTA

TITLE: State Wetlands Conservation Plan

AGENCY: State Water Commission

900 East Boulevard

Bismarck, ND 58505

Game and Fish Department

100 N. Bismarck Expressway

Bismarck, ND 58501

CONTACT: Dave Sprynczynatyk

(701) 224-4940

Lloyd Jones

(701) 221-6300

FUNDING: Total project: \$253,334

EPA funding: 190,000

State match: 63,334

The North Dakota State Water Commission and Game and Fish Department will develop and implement a State Wetland Conservation Plan (SWCP) to create a comprehensive approach to protecting wetlands in North Dakota. Products to be completed include:

1. Wetland education and information program;
2. Complete wetland conservation plan using geographic information technology;
3. Prioritization of Conservation Reserve Program Tracks critical to wetland watershed protection and migratory birds;
4. Private lands initiative; and
5. Development of a wetlands water quality/bio-criteria data base.

OHIO

TITLE: Wetlands Program Development Grant

AGENCY: Ohio Environmental Protection Agency

Division of Water Quality Planning and Assessment

1800 Water Mark Drive

Columbus, OH 43215

CONTACT: Gail Hesse

(614) 644-2146

FUNDING: Total project: \$102,311

EPA funding: 76,733

State match: 25,578

The Ohio Environmental Protection Agency will seek to strengthen wetlands protection by establishing a State wetlands strategy, and by developing quantitative performance goals for measuring the success of wetland mitigation projects. This grant will support development of the State strategy.

The grant will also support program efforts to strengthen Ohio's 401 Certification Program by developing quantitative performance goals for measuring the success of wetland mitigation projects. Wetland evaluation data will be used to develop methods for identifying quantitative performance goals and monitoring requirements for mitigation projects. Procedures will be developed to insure that mitigation monitoring data can be used to determine success and/or the need for corrective measures at wetland mitigation sites. This grant task will also assess the effectiveness of wetland evaluation methods developed for Ohio's wetland water quality standards. Grant products will include the following:

1. outreach materials and public involvement program;
2. feasibility analysis of implementing Task Force recommendations;
3. production and distribution of the final State wetland strategy and other materials; and,
4. performance goals for wetland mitigation projects.

OKLAHOMA

TITLE: Riparian Restoration, Playa Lake Management, Protection Plans for Wetlands to be used in the Development of Techniques and Strategies for Implementing the Wetlands Conservation Plan

AGENCY: Oklahoma Pollution Control Coordinating Board Oklahoma Department of Pollution Control

P.O. Box 53504

Oklahoma City, OK 73152

CONTACT: Steven Thompson
(405) 271-4468
FUNDING: Total project: \$278,244
EPA funding: 208,683
State match: 69,561

This multi-agency project will use demonstration and restoration projects as models to develop strategies for the implementation of a wetlands conservation plan and to accomplish wetlands protection in the State. The project consists of three Watershed Demonstration Projects.

1. The Little Washita River, located in Grady, Comanche, and Caddo counties, in Central Great Plains Ecoregion drains approximately 100,000 acres of loamy and clayey soils.
2. The Willow Creek Watershed, located in Caddo county, in the Central Great Plains Ecoregion, drains about 25,000 acres of loamy and sandy soils.
3. The Salt Creek Watershed, located in Pottawatomie and Seminole counties, in the Central Oklahoma/Texas Ecoregion, drains more than 150,000 acres of loamy and clayey soils.

The purpose of these projects is to accomplish wetland management and protection by integrating with other conservation and water quality programs within a targeted watershed. The main objectives of the Watershed Demonstration Projects are to improve stream and ground water quality and complete the restoration of riparian wetlands.

OREGON

TITLE: Oregon Wetland Conservation Strategy
AGENCY: Oregon Division of State Lands
775 Summer Street NE
Salem, OR 97310-1337
CONTACT: Ken Bierly
(503) 378-3805 EXT. 246
FUNDING: Total project: \$370,000
EPA funding: 280,000
State match: 55,000
Other: 35,000

Oregon's 1993 Wetland Program Enhancement Grant Proposal consists of three elements.

1. Watershed Analysis and Prioritization. This element of the grant will analyze watershed condition and develop Oregon's management priorities using the synoptic approach developed by the EPA laboratory in Corvallis. The project will evaluate biodiversity, water quality, wetland condition, and other factors to

measure and rank watershed health.

2. Wetland Inventory and Planning Support. This element provides funds to local governments in Oregon to develop and implement local wetland conservation plans and to conduct wetland inventories as part of conservation plans.

3. Wetland Program Development. This element includes development of a State wetland restoration strategy. The program will develop and coordinate recommendations for a State restoration policy, document watersheds with high potential for wetland restoration, identify regional land use conflicts associated with wetland restoration, and identify detailed program needs for systematic implementation of wetland restoration projects.

PENNSYLVANIA

TITLE: Enhancing Wetlands Protection in Pennsylvania

AGENCY: Pennsylvania Department of Environmental Resources

Office of Water Management

P.O. Box 2063

Harrisburg, PA 17105-2063

CONTACT: Kenneth R. Reisinger

(717) 541-7802

Richard Croop

(717) 787-3444

FUNDING: Total project: \$261,827

EPA funding: 196,370

State match: 46,071

Other:

19,386 Penn State University

The objectives of the Wetlands Assistance task are:

1. Adapt an existing geographic information system for Pennsylvania to screen watersheds with respect to sensitivity of cumulative impacts on wetland resources;
2. Develop and evaluate simple, cost-effective, state-of-the-art techniques to assess the cumulative impacts on wetlands in selected watersheds with the explicit goal of clarifying how decisions can be made so that both protection and development concerns are addressed; and
3. Select and establish a series of reference wetlands throughout the Commonwealth based on specific criteria and compare these wetlands to populations of wetland mitigation projects.

Results of this project will add to the development of the wetland protection program in Pennsylvania. Descriptions of certain exceptional value wetland types will assist with the Department's determination of wetlands values and functions. This information could also be used by potential applicants in

identifying wetlands that are unique to an area or region.

RHODE ISLAND

TITLE: Identification and Protection of Globally Significant Wetland Communities in Rhode Island

AGENCY: Natural Heritage Program

Department of Environmental Management

Division of Planning and Development

83 Park Street

Providence, RI 02903

CONTACT: Joanne Michaud

(401) 277-2776

FUNDING: Total project: \$45,936

EPA funding: 34,452

State match: 11,484

The Rhode Island Natural Heritage Program will conduct inventory and survey work in three rare wetland communities throughout Rhode Island: atlantic white cedar swamps, coastal plain pond shores, and calcareous fens. All data generated will result in immediate on-the-ground protection of wetlands under Rhode Island's Freshwater Wetland Regulations. In addition, this project is part of a regional effort of all six State Natural Heritage Programs and The Nature Conservancy to generate a region-wide map and classification of rare wetland community types throughout New England.

SOUTH CAROLINA

TITLE: Development of Statewide Wetlands Protection Policy in South Carolina Through Education and Consensus Building

AGENCY: Department of Health and Environmental Control

2600 Bull Street

Columbia, SC 29201

CONTACT: Sally Knowles

(803) 734-5229

FUNDING: Total project: \$260,615

EPA funding: 195,461

State match: 65,154

The objective of this project is to gain general agreement among polarized groups regarding wetlands

protection policy and mechanisms in the State. The results of this effort may serve to strengthen current protection efforts, to develop a State wetlands permitting program and to develop a State Wetlands Conservation Plan.

A steering committee will be formed with members including Department of Health and Environmental Control (DHEC) staff members, agriculture, silviculture, mining, land developers, environmental advocates, and other State natural resource agency staff. DHEC will develop a handbook for permit applicants explaining the Section 401 Certification Program. A facilitator will coordinate outreach efforts including organization of meetings and preparation of materials on wetlands policies and protection topics. The facilitator will also produce a document of findings including recommended statewide wetlands policy, areas of general agreement, areas of concern where agreement cannot be reached, and recommendations for wetlands protection mechanisms in South Carolina.

SOUTH DAKOTA

TITLE: State Wetlands Protection Program
AGENCY: South Dakota Department of Agriculture
445 East Capitol Avenue
Pierre, South Dakota 57501-3185
CONTACT: Clark Johnson
(605) 773-3724
FUNDING: Total project: \$80,000
EPA funding: 60,000
State match: 20,000

The South Dakota program is a cooperative effort supported by the Governor's office, the joint legislative committees, and South Dakota State University. It provides for coordination and support of wetlands protection efforts between various private, State and Federal agencies, and the general public through the South Dakota Department of Agriculture.

TENNESSEE

TITLE: Floodplain Hydrologic Management and Wetlands Restoration Analysis; National Wetlands Inventory Data Digitization; and Investigation of Remote Sensing Interpretation Methodology
AGENCY: Tennessee State Planning Office
308 John Sevier Building
500 Charlotte Avenue

Nashville, TN 37243
CONTACT: Ben Smith or Ruth Neff
(615) 741-5782
FUNDING: Total project: \$366,304
EPA funding: 264,854
State match: 101,450

The projects to be performed are outlined in the Tennessee State Wetlands Conservation Strategy draft (Jan. 1993) and include the development of a floodplain management and wetlands restoration analysis; the digitization of National Wetland Inventory data for assessment of conservation and restoration needs; identification of areas of special concern, development of a long-term monitoring plan; and augmentation of the existing Geographic Information System wetlands/soils database by remote sensing analysis. This work will contribute to the implementation of five of the statewide objectives identified in the strategy. These are to: identify critical functions of major wetlands types, identify priority sites for acquisition, identify priority restoration sites and corridors, restore 70,000 acres of wetlands in west Tennessee by the year 2000, and maintain or restore natural floodplain hydrology. Final products will be available to State and Federal wetlands agencies and planners, landowners and other decision makers in the State.

TEXAS

TITLE: Development of a Prototype Interagency GIS Database for Wetland Resources Information
AGENCY: Texas General Land Office
1700 N. Congress Avenue, Rm 730
Austin, TX 78701-1495
CONTACT: Bruce Smith
(512) 463-5055
FUNDING:
Total project:
\$87,098
EPA funding:
65,324
State match:
21,774

This project will coordinate interagency development of a Geographic Information System (GIS) structure that will enable State and Federal agencies operating in Texas to efficiently manipulate and exchange wetland resources data as part of the State Wetlands Conservation Plan. Although much historical data exists on wetland resources in Texas, there does not currently exist an interagency information exchange structure for sharing, manipulating, and using this data to develop improved wetland management and monitoring programs. The General Land Office will develop a Prototype

Interagency Wetlands Resources GIS Data Base to address this management need. Tasks include planning and coordination, database construction and testing, and delivery of the final product.

TEXAS

TITLE: Development of a Coastal Wetland Priority Acquisition Plan

AGENCY: Texas General Land Office

1700 N. Congress Avenue

Austin, TX 78701-1495

CONTACT: Tom Calnan

(512) 463-5100

FUNDING:

Total project:

\$49,950

EPA funding:

37,463

State match:

12,487

This project will develop the framework and guidelines for identifying and prioritizing coastal wetlands for State acquisition. Tasks include:

1. creation of interagency workgroup to help develop the criteria for prioritizing coastal wetland acquisition;
2. identification and mapping all publicly owned wetland areas;
3. development of criteria to prioritize acquisition areas not currently protected by using information from current acquisition priority plans and other pertinent information;
4. identification and ranking of acquisition areas for by using inventories, status and trends data, land-use information, and other;
5. consult with coastal wetland managers to help finalize priorities;
6. identify and describe potential funding sources; and
7. develop final Coastal Wetlands Priority Acquisition Plans.

TEXAS

TITLE: Development of Baseline Information on Important Coastal Natural Resources to Assist in the Preparation of a State Wetlands Conservation Plan

AGENCY: Texas Parks and Wildlife Department

4200 Smith School Road

Austin, TX 78744

CONTACT: Leland Roberts

(512) 389-4632

FUNDING: Total project: \$97,062

EPA funding: 72,796.50

State match: 24,265.50

This project will assist in the conversion and development of scattered biological and geographic data into a Geographic Information System (GIS) that managers can use to monitor change, assess the relative importance of sensitive wetland areas, and develop management plans for major estuarine systems; particularly those important to commercial and recreational fisheries species and waterfowl. Deliverables include:

1. ARC/INFO maps of fish distributions in Matagorda Bay, Aransas Bay, and the Upper Laguna Madre;
2. criteria developed to determine the sensitivity of wetland areas in Corpus Christi Bay, Sabine Lake, and the Lower Laguna Madre;
3. GIS map layers of Galveston Bay showing habitat types, spatial distribution of fisheries species, salinity, dissolved oxygen, and sediment type;
4. time and data permitting, additional GIS map layers for biological diversity, endangered species, habitat type, and other aspects of coastal resources will be developed for all Texas estuaries; and
5. time and data permitting, transect zone maps and a report on changes in waterfowl use of the Texas coast will be prepared by Texas Parks and Wildlife personnel

TEXAS

TITLE: Demonstration of Restoration of Bottomland Hardwood Forest for Wildlife Habitat and Timber Production

AGENCY: Texas Parks & Wildlife Department

4200 Smith School Road

Austin, TX 78744

CONTACT: Leland Roberts

(512) 389-4632

FUNDING: Total project: \$40,300

EPA funding: 30,225

State match: 10,075

This project will aid in conserving the biodiversity of bottomland hardwood forests through integration of compatible practices for sustained yield of timber and maintenance of wildlife habitat values. Deliverables are:

1. Data on timber yield will be tabulated; revenue options will be available through timber market prices comparison; retention of wildlife habitat quality also can be evaluated.
2. Uneven-aged stands under regeneration through seedling planting will comprise a demonstration for compatible forestry/wildlife management techniques.
3. Tours, field days, workshops, and seminars for on-site demonstrations; literature, videos, television and radio productions for off-site information transfer.

UTAH

TITLE: Development of Utah State Wetlands Conservation Plan and Jordan River Watershed Demonstration Project

AGENCY: Department of Natural Resources

Division of Wildlife Resources

1596 West North Temple

Salt Lake City, UT 84116

CONTACT: Catherine Quinn

(801) 538-4861

FUNDING: Total project: \$209,575

EPA funding: 156,300

State match: 53,275

This project will assist the State of Utah in developing a State Wetlands Conservation Plan. Two separate tasks will be completed during 1994.

1. Development and implementation of a State Wetlands Conservation Plan, and
2. Jordan River watershed protection demonstration project.

VERMONT

TITLE: Wetlands Outreach and Education Program and Wetland Protection through Outstanding Resource Water Designation and Reclassification

AGENCY: Agency of Natural Resources

Department of Environmental Conservation

103 South Main Street

Building 1 South

Waterbury, VT 05671-0401

CONTACT: Stephen Syz
(802) 244-6951
FUNDING: Total project: \$174,024
EPA funding: 130,518
State match: 43,506

1. In response to increasing development pressure in two high value wetland systems along the Lamoille and Clyde Rivers, and in an effort to better protect these areas, the Department of Environmental Conservation (DEC) proposes to undertake the following tasks: provide technical assistance to municipalities in the development of Outstanding Resource Water designation petitions; develop a bibliographic database and establish an antidegradation wetland function and value computer reference system; and develop a parallel database of cumulative impacts to wetlands throughout Vermont.

2. As a logical step in its development of a State Wetland Conservation Plan for Vermont (funded by a FY92 grant), DEC Wetlands Program staff will develop an outreach and education program to parallel their wetlands permitting and enforcement program. Products to be developed include: outreach to municipalities, particularly notification of reporting requirements under Vermont's Wetland Rules; wetland workshops for local boards; a growth center planning guide; two wetland educational videos and a wetlands slide show; and a revised Vermont's wetlands curriculum guide.

VERMONT

TITLE: Identification and Protection of Globally Rare Wetland Communities in Vermont
AGENCY: Fish and Wildlife Department
Nongame and Natural Heritage Program
103 South Main Street
Waterbury, VT 05671-0501
CONTACT: Chris Fichtel
(802) 244-7331
FUNDING: Total project: \$35,767
EPA funding: 26,825
State match: 8,942

In New England a preliminary list of the most threatened, globally significant wetland community types has been developed. The Natural Heritage Program will expand upon this work by conducting a systematic inventory of calcareous, non-forested wetlands and fens throughout Vermont, beginning with regions where development and other pressures pose the greatest threat to these resources. The information generated by this project will greatly enhance the State's ability to protect these wetlands. In addition, this project is part of a regional effort of all six state Natural Heritage Programs and The Nature Conservancy to generate a region-wide map and classification of rare wetland community types throughout New England.

VIRGINIA

TITLE: Evaluation of Mitigation Banking: A Case Study in Virginia

AGENCY: Virginia Institute of Marine Science

Gloucester Point, VA 23062

CONTACT: Betty B. Jones

(804) 642-7027

FUNDING: Total project: \$37,777

EPA funding: 28,333

State match: 9,444

The purpose of this grant is to examine the "net effects" of the utilization of the Virginia Department of Transportation's wetland bank by conducting a functional assessment of the bank and each of the wetland losses charged against that bank. The results of this study will document the gains or losses in wetland functions which have resulted from this practice, and will provide guidance for wetland managers regarding the utility of the approach based on current understandings.

VIRGINIA

TITLE: Investigation and Long-Term Monitoring of Invasive Plant Species within Virginia's Created Wetland Sites

AGENCY: Virginia Institute of Marine Science

Gloucester Point, VA 23062

CONTACT: Betty B. Jones

(804) 642-7027

FUNDING: Total project: \$32,659

EPA funding: 24,340

State match: 8,319

The objectives of this grant will be to establish the baseline data pertinent to monitor changes in vegetation patterns within Virginia's largest created wetland sites. The use of created wetlands to replace natural wetlands has become increasingly important to State regulatory agencies. Despite the obvious difficulties in assessing how well a created wetland resembles a natural wetland in a myriad of functions and values, a more subtle and disturbing question is whether the created wetland will maintain its planned integrity well into the future.

VIRGINIA

TITLE: Needs Identification for Nontidal Wetlands Technical Advisory Activities to Support the Virginia Water Protection Program

AGENCY: Virginia Institute of Marine Science

Gloucester Point, VA 23062

CONTACT: Betty B. Jones

(804) 642-7027

FUNDING: Total project: \$75,275

EPA funding: 56,455

State match: 18,820

This grant will explore advisory needs within the Virginia Water Protection Program (VWPP) and begin the development of a detailed review protocol. This project will consist of three separate components. The first component will consist of a detailed review of 1991 and 1992 permit activity in Virginia specific to nontidal wetlands. Project personnel will prepare a document summarizing this information.

The second component of the project is the identification of potential advisory workload. The categorization of historical permits will allow Virginia Institute of Marine Sciences and VWPP staff to determine the time and resources needed to properly and efficiently address proposed environmental impacts and accuracy of wetland delineations.

The third project component will be to establish a detailed technical review protocol that will include methods for the estimation of proposed impacts and guidelines for the development of recommendations and project alternatives.

VIRGINIA

TITLE: Establishment of Long-Term Monitoring Sites in Nontidal Forested Wetlands in the Coastal Plain of Virginia

AGENCY: Virginia Institute of Marine Science

Gloucester Point, VA 23062

CONTACT: Betty B. Jones

(804) 642-7027

FUNDING: Total project: \$21,848

EPA funding: 17,569

State match: 5,857

This grant will select sites and gather baseline vegetation and environmental data as part of an initial functional assessment of nontidal forested wetlands. Sites established for this grant will serve as reference or demonstration wetlands for use by regulators, consultants, researchers and the public to enable better wetlands management.

WASHINGTON

TITLE: State Wetland Integration Strategy

AGENCY: Department of Ecology and the Department of Community Development

P.O. Box 47600

Olympia, WA 98504-7600

CONTACT: Elizabeth Babcock

(206) 407-7261

Lynn Beaton

(206) 407-7266

Terry Granger

(206) 407-6547

FUNDING: Total project: \$226,992

EPA funding: 162,501

State match: 52,239

Other: 12,252

This grant contains two elements that are an important part of the implementation of the Washington State Wetland Integration Strategy.

Element 1 supports three or four local jurisdictions develop planning programs which provide strong protection of wetlands resources, involve the State and Federal agencies as well as the general public in the planning process, and provide models of wetlands planning that can be used by other local jurisdictions in Washington.

Element 2 provides one-third funding for a two year watershed planning assistance position. This person will provide technical assistance to local jurisdictions in the development and implementation of system-level, basin/watershed approaches.

WEST VIRGINIA

TITLE: West Virginia Watershed Conservation and Management Program

AGENCY: West Virginia Department of Commerce, Labor and Environmental Resources Division of Natural Resources
Capitol Complex, Building 3
Charleston, WV 25305
CONTACT: Walter S. Brown
(304) 637-0245
FUNDING: Total project: \$122,621
EPA funding: 98,089
State match: 24,532

The objectives of the West Virginia Watershed Conservation and Management Program to be addressed by this grant application are as follows:

1. By August 1, 1993, develop and implement an interagency planning system for comprehensive, watershed-based management of the State's river and wetlands resources.
2. By December 1, 1993, develop a 10-year strategic plan for the State's rivers and wetlands resources that recognizes major resource conservation issues and identifies strategies for addressing those issues.
3. By April 1, 1994, develop a 5-year long-range plan that identifies major subprogram areas and specifies goals, objectives, problems, and strategies for those subprograms.
4. By June 30, 1994, develop a 1-year operational plan that specifies 1994 priority project areas for the subprograms identified in the long-range plan.

WEST VIRGINIA

TITLE: Development of Wetlands Policy and Tracking System
AGENCY: West Virginia Division of Environmental Protection
Office of Water Resources
1201 Greenbrier Street
Charleston, WV 25311-1088
CONTACT: Dr. Laidley E. McCoy
(304) 558-2107
FUNDING: Total project: \$100,000
EPA funding: 75,000
State match: 25,000

Presently the West Virginia Division of Environmental Protection, Office of Water Resources (OWR) in coordination with the West Virginia Division of Natural Resources, Wildlife Resources Section, is developing and implementing the use of Geographic Information System technology for protection of wetland resources. This grant will enhance the current efforts and facilitate trend analysis of wetland impacts, by addressing non-permitted wetland alterations within a specified geographic area. Aerial photos, previous permit locations, Heritage Program data, and National Wetland Inventory data will

allow OWR to evaluate development pressures and identify critical resources as a part of the State 401 Certification process and NPDES permit review process.

WISCONSIN

TITLE: Wetland Monitoring: Strategies for Wetland Protection

AGENCY: Wisconsin Department of Natural Resources

101 South Webster Street

Box 7921

Madison, WI 53707

CONTACT: Dale Simon

(608) 267-9869

Lois Stoerzer

(608) 266-8852

FUNDING: Total project: \$323,525

EPA funding: 258,820

State match: 64,705

Wisconsin adopted wetland water quality standards in August 1991. In this grant, the Wisconsin Department of Natural Resources (WDNR) will use a pilot program to track and evaluate Section 401 decisions made since the adoption of wetland water quality standards in the Southeast and Lake Michigan Districts. Major products will include:

1. A comprehensive wetlands Geographic Information System (GIS) data base for all counties in the Southeast and Lake Michigan Districts. Wetland inventory maps are already digitized for this part of the State. The data will include site-specific wetland information and data on regulatory decisions.
2. A program evaluation report identifying the strengths and weaknesses associated with the implementation of wetland water quality standards within these two districts. Special attention will be given to assessing the geographic areas where greatest wetlands losses are occurring and the activities causing the greatest harm to wetland functions.
3. An ARCVIEW users guide for the GIS system and recommendations for strategies for use of the system by WDNR, other agencies with Wisconsin wetland responsibilities and by other States. Specific recommendations for programmatic improvements within Wisconsin will be part of this evaluation.

WYOMING

TITLE: State Wetlands Planning and Outreach Program

AGENCY: Department of Environmental Quality

122 West 25th Street, 4th West

Cheyenne, WY 82002

CONTACT: William DiRienzo

(307) 777-7781

FUNDING: Total project: \$128,895

EPA funding: 90,000

State match: 38,895

Through this project, the Department of Environmental Quality (DEQ) will develop a state-wide wetland management plan that will serve as the basis for wetlands protection and restoration efforts in Wyoming.

The work for the State Wetlands Planning and Outreach Program will be undertaken jointly by the Wyoming Department of Agriculture (WDA), DEQ, and The Nature Conservancy (TNC). TNC, in partnership with DEQ, will undertake wetlands/riparian inventory of watersheds in the western half of Wyoming. WDA will work with the Wyoming Riparian Association to develop outreach materials to protect and manage wetlands and riparian areas throughout the State of Wyoming. The major activities under the grant program are:

1. Wetlands and riparian education outreach and information program, and
2. Wetlands and riparian plant community classification system.

BLACKFEET TRIBE IN MONTANA

(Montana)

TITLE: Development of a Comprehensive Strategy for Wetland Stewardship in the Upper Two Medicine Watershed on the Blackfeet Indian Reservation

AGENCY: Blackfeet Tribe

Environmental Office

P.O. Box 850

Browning, MT 59417

CONTACT: Stewart Miller

(406) 338-7421 or 7422

FUNDING: Total project: \$112,600

EPA funding: 90,000

Tribal match: 22,600

This project will be undertaken by the Tribe with the assistance of a task force comprised of members from the Blackfeet Tribal Government and the Bureau of Indian Affairs. Major ecosystems and related wetland resources will be identified and characterized. Environmental quality standards will be identified to protect priority ecological resources in the watershed. A watershed monitoring plan to track changing

conditions will be prepared and a risk assessment plan developed to detect existing and potential impacts to resources in the basin.

CAMPO BAND OF KUMEYAAY INDIANS

(California)

TITLE: State Wetlands Protection Program
AGENCY: Campo Band of Kumeyaay Indians
Campo Environmental Protection Agency
1779 Campo Truck Trail
Campo, CA 91906
CONTACT: Michael Conolly
(619) 478-9046
FUNDING: Total project: \$65,000
EPA funding: 48,750
Tribal match: 16,250

This grant will help fund the development of the Campo Band of Kumeyaay Wetlands Protection Program which will include:

1. establishing wetland protection goals in Campo Band's constitutional framework;
2. inventory and assessment of wetland resources; and
3. evaluation of protection mechanisms for wetland resources.

CONFEDERATED TRIBES OF THE UMATILLA INDIAN RESERVATION

(Oregon)

TITLE: Wetland Protection
AGENCY: Confederated Tribes of the Umatilla Indian Reservation
Department of Natural Resources
P.O. Box 638
Pendleton, OR 97801-0638
CONTACT: J.H. (Joe) Richards
(503) 276-3447
FUNDING: Total project: \$71,597
EPA funding: 57,200
Tribal match: 14,397

The Tribe will identify opportunities to protect and restore wetland and riparian habitats throughout the Umatilla Basin through the development of an historical perspective and evaluation of the existing status of wetlands and wetland-dependent wildlife and fish populations. This will be accomplished by conducting the necessary literature reviews, field surveys and data analysis and the preparation of summary reports and the development of strategies and recommendations for restoration activities.

KICKAPOO TRIBE IN KANSAS

(Kansas)

TITLE: Kickapoo Tribe Wetland Planning Framework

AGENCY: Kickapoo Tribe in Kansas

P.O. Box 271

Horton, KS 66439-0271

CONTACT: Fred Thomas

(913) 486-2131

FUNDING: Total project: \$33,300

EPA funding: 25,000

Tribal match: 8,300

This grant will enable the Kickapoo Nation to develop the planning procedures necessary for the development of a Tribal Wetland Conservation Plan. This will be accomplished by identifying and classifying tribal wetland areas and examining options for actions and processes which will support a goal of no overall net loss and a long-term net gain of tribal wetland resources. Tribal wetland resources are those located within the Kickapoo Nation Reservation Boundaries.

LOWER ELWHA S'KLALLAM TRIBE

(Washington)

TITLE: Wetland Protection Plan Development

AGENCY: Lower Elwha S'Klallam Tribal Council

1666 Lower Elwha Road

Port Angeles, WA 98362

CONTACT: Carol Brown

(206) 452-8471

FUNDING: Total project: \$50,144

EPA funding: 40,044

Tribal match: 10,100

The objectives of this study are to:

1. assess and delineate wetlands on the Lower Elwha S'Klallam Indian Reservation;
2. procure PC-based computer mapping capabilities on the Lower Elwha Indian Reservation with Global Positions System (GPS) integration;
3. provide on-the-job training for staff in computer mapping and GPS;
4. initiate a process of critical area protection within the community based local government;
5. provide protection to these sensitive areas by the sovereign jurisdiction of the Lower S'Klallam Indian Tribe; and
6. provide ordinance framework to be used in patterning critical area protection on present and future tribal properties.

MICCOSUKEE TRIBE OF FLORIDA

(Florida)

TITLE: Wetland Delineation and Functional Assessment--Use of GIS/GPS Technology to Develop Land Use Plans

AGENCY: Miccosukee Tribe of Florida

Miccosukee Corporation

Real Estate Services

P.O. Box 440021

Tamiami Station

Miami, FL 33144

CONTACT: Steve Terry

(305) 223-8380

FUNDING: Total project: \$148,163

EPA funding: 70,267

Tribal match: 77,896

The Miccosukee Tribe will delineate and classify the wetlands on the Alligator Alley Federal Reservation in western Broward County. The maps will be used in the development of land use plans and to evaluate proposed projects for impacts to the wetland resources. The maps will be prepared with the use of color infra-red aerial photography and USDA Soil Conservation Service soils maps. Wetlands delineation and classification will be conducted as a cooperative effort between the Tribe, the Environmental Protection Agency, and the Corps of Engineers.

MISSISSIPPI BAND OF CHOCTAW INDIANS

(Mississippi)

TITLE: Enforcement and Implementation of Tribal Wetland Regulations, Policies and Wetland Education Program

AGENCY: Mississippi Band of Choctaw Indians
Office of Economic Development
P.O. Box 6005
Philadelphia, MS 39350
CONTACT: Joe Gardinski
(601) 656-5251, ext. 409
FUNDING: Total project: \$82,178
EPA funding: 49,394
Tribal match: 32,784

The Tribe formulated wetland policies and regulations under FY91 State Wetland Protection Development Grant. With this grant, the Tribe plans to create an enforcement mechanism for these regulations and to carry out tasks outlined in its wetland policy document to protect and manage the resource. In conjunction with this, a program will be developed and implemented for Tribal members to educate them on wetland functions and values and the Tribal policies and regulations.

MORONGO BAND OF MISSION INDIANS

(California)

TITLE: Wetlands Protection Project
AGENCY: Morongo Band of Mission Indians
11581 Potrero Road
Banning, CA 92220
CONTACT: David Saffan
(909) 849-7909
FUNDING: Total project: \$26,887
EPA funding: 20,452
Tribal match: 6,435

This grant will help fund the development of the Morongo Tribal Wetland Conservation Plan which will be incorporated into the Tribe's overall economic development strategy. The intent of the plan is to achieve "no net loss" of Tribal wetlands coupled with a long-term net gain of wetlands. The plan will also serve as a model for other small Tribes in the Region.

PASSAMAQUODDY TRIBE

(Maine)

TITLE: Establishment of Tribal Wetlands Protection Program
AGENCY: Passamaquoddy Tribe

Indian Township Reservation
P.O. Box 821
Princeton, ME 04668
CONTACT: Veronica Smith
(207) 796-2301
FUNDING: Total project: \$74,817
EPA funding: 55,970
Tribal match: 18,847

In preparation for the development of a Wetlands Conservation and Protection Plan, the Tribe will evaluate and delineate all Tribal wetlands. Data from this study will provide the basis for the establishment of the Conservation Plan as well as Tribal wetland rules and regulations.

PENOBSCOT INDIAN NATION

(Maine)

TITLE: Biological/Ecological Assessment of Wetlands
AGENCY: Penobscot Indian Nation
Department of Natural Resources
6 River Road
Old Town, ME 04468
CONTACT: Daniel Kusnierz
(207) 827-7776
FUNDING: Total project: \$66,675
EPA funding: 50,000
Tribal match: 16,675

A functional assessment of Tribal wetlands will be conducted. The information generated will assist the Tribe in the protection of sensitive wetland areas, as well as in Tribal planning initiatives. The wetland data will be added to their developing natural resource Geographic Information System database, thereby further enhancing the Tribe's wetland protection program.

PUEBLO OF SAN JUAN

(New Mexico)

TITLE: San Juan Wetland Conservation Project
AGENCY: Pueblo of San Juan
P.O. Box 1099
San Juan Pueblo, NM 87566

CONTACT: Albert Bowie

(505) 852-4212

FUNDING: Total project: \$128,667

EPA funding: 96,500

Tribal match: 32,167

The Tribe will develop a Tribal Wetland Conservation Plan. The purpose of this project is to provide funds for the inventory, assessment, evaluation and development of a long term plan for the protection and restoration of the wetlands within the boundaries of the Pueblo of San Juan. This will be accomplished by the following:

1. Mapping and inventory to determine the relationship of the wetlands to the ecosystem and surrounding environment and the water supply; identify threats to the wetlands.
2. Examine the impact of non-tribal interest to the Chama and Rio Grande outside tribal jurisdiction, especially as it effects the river as it flows through the lands and the wetlands.
3. Identify wetlands that have been lost and the ecosystem disturbed through extraction of sand and gravel. Inventory and identify areas of wetlands that are decreasing or in danger of destruction; investigate methods of restoration.
4. Establish protocols for the protection of the San Juan Wetlands. Part of the recommendations will be the establishment of a long-range wetlands conservation plan and monitoring program.
5. Indicate realistic ways the Tribe may interact with private and public agencies outside Tribal jurisdiction for the protection and enhancement of the wetlands; work with the business and agricultural interests at the pueblo to protect wetlands.
6. Public awareness campaign within the pueblo and surrounding area; Possible nature walks along wetlands; education in Headstart and Senior programs.

PUEBLO OF ZUNI

(New Mexico)

TITLE: Wetlands Evaluation of the Upper Rio Nutria System on the Zuni Indian Reservation, New Mexico

AGENCY: Pueblo of Zuni

P.O. Box 339

Zuni, NM 87327

CONTACT: Carol Pinto

(505) 782-4481

FUNDING: Total project: \$469,534

EPA funding: 246,519

State match: 223,015

The Tribe will develop a Tribal Wetland Conservation Plan. This project will complement the Zuni Land Conservation Act of 1990 which directed the Zuni Tribe to develop a sustainable natural resource

development plan, including a watershed restoration plan. This will be accomplished by development of a prototype wetland/watershed restoration plan. The purpose of this project is to provide funds for the inventory, assessment, evaluation and development of a long term plan for the protection and restoration of the wetlands within the boundaries of Zuni Pueblo. This will be accomplished by the following:

1. inventories and evaluations of wetland resources in the Upper Rio Nutria watershed;
2. evaluation of sediment sources and yields within the upper watershed;
3. prioritization of wetlands based on ecological value and sediment impacts;
4. formulation of watershed treatments to reduce sediment loads;
5. identification of a monitoring plan including the use of biological indicators; and
6. development of a prototype wetland/watershed restoration plan.

RED LAKE BAND OF CHIPPEWA INDIANS

(Minnesota)

TITLE: Wetlands Protection

AGENCY: Red Lake Band of Chippewa Indians

Red Lake Tribal Council

Department of Natural Resources

Red Lake, MN 56671

CONTACT: Charles Mayer

(218) 679-3959

FUNDING: Total project: \$28,943

EPA funding: 17,500

Tribal match: 11,443

The Red Lake Band of Chippewa Indians, through its Department of Natural Resources, has begun a planning project to initiate the process of developing a wetlands conservation plan for its reservation. This grant will support activities undertaken to begin development of this plan, including a survey of exotic species and development of a management plan for eradication of these species; a rare and endangered species survey to assess the floral and faunal species on the reservation; verification of existing National Wetland Inventory (NWI) map data; and establishing a wetlands database and Arc-Info GIS system. The major products for this grant will include:

1. GIS database including digitized NWI map data, and survey data on exotic and rare/endangered species;
2. report summarizing results of exotic and rare/endangered species field surveys, and GIS database development.

SKOKOMISH TRIBE

(Washington)

TITLE: Skokomish Reservation Wetland Conservation Plan--Skokomish River Watershed Protection Demonstration Project

AGENCY: Skokomish Indian Tribe

N. 80 Tribal Center Road

Shelton, WA 98584

CONTACT: Victor Martino

(206) 842-5386

FUNDING: Total project: \$400,000

EPA funding: 200,000

Tribal match: 200,000

The project will produce a Watershed Protection Approach Demonstration Project for the Skokomish River Basin in the Hood Canal region of western Washington. This will provide a blueprint for all relevant governmental entities to focus protection, restoration and management of wetlands and other water resources in the Skokomish River Basin and Estuary. The project will include a Wetlands Conservation Plan and direct protection for the Skokomish Reservation's more than 2,000 acres of riverine and estuarine wetlands.

ST. REGIS MOHAWK TRIBE

(New York)

TITLE: Wetland Conservation Plan

AGENCY: St. Regis Mohawk Tribe

Environmental Division

Community Bldg., Route 37

Hogansburg, NY 13655

CONTACT: Ms. Patty Francis

(518) 358-2272

FUNDING: Total project: \$82,585

EPA funding: 66,068

Tribal match: 16,517

The St. Regis Mohawk Tribe have just completed a draft Environmental Management Plan and recognize the need to actively manage their wetland resources, which cover roughly 17% of the reservation. The Tribe will develop and implement a Wetlands Protection Program which includes an inventory and status of all wetlands in and around the reservation and a public outreach program.

WALKER RIVER PAIUTE TRIBE

(Nevada)

TITLE: Wetlands Identification and Development Project

AGENCY: Walker River Paiute Tribe

P.O. Box 220

Schurz, NV 89427

CONTACT: Anita M. Collins

(702) 773-2306

FUNDING: Total project: \$81,585

EPA funding: 63,035

Tribal match: 18,550

This grant will assist the Tribe in its Wetlands Identification and Development Project. The project will include an inventory of wetlands and riparian resources and development of a management program for those wetlands.

COMMONWEALTH OF THE NORTHERN MARIANA ISLANDS

TITLE:The Magpo Comprehensive Watershed/Wetland Protection Plan

AGENCY: Department of Public Health & Environmental Services

Division of Environmental Quality

Commonwealth of the Northern Mariana Islands

P.O. Box 1304-CK

Saipan, MP 96950

CONTACT: Miriam K. Seman

(670) 234-6114

FUNDING: Total project: \$99,000

EPA funding: 54,000

Territorial match: 45,000

This grant will support the first watershed protection approach effort by the territorial government. The planning will focus on protecting the Magpo Watershed, a sole-source aquifer threatened by agriculture and development. The project will serve as a demonstration project for the Commonwealth of the Northern Mariana Islands and the other Islands.

PALAU

TITLE:Watershed Protection Approach Demonstration Project for the Ngermeskang/Tabecheding Watershed

AGENCY: Palau Environmental Quality Protection Board

P.O. Box 100

Koror, Republic of Palau 96940

CONTACT: Dorrie Panyotou

(680)488-1639

FUNDING: Total project: \$87,000

EPA funding: 87,000

(no match required)

Palau proposes to implement its first effort at wetlands protection and watershed planning under this grant. The forest cover and coral reef monitoring project will provide an important foundation for planning. The Village Coordination Officers will provide a link between the territorial government and the tribal governments. The project will support the creation of the Wetlands Planning Coalition to guide development of wetlands protection efforts.

PUERTO RICO

TITLE: Wetland Conservation Plan

AGENCY: Department of Natural Resources

Box 5887

Puerta de Tierra

San Juan, Puerto Rico 00908

CONTACT: Ms. Marianela Torres

(809) 722-9185

FUNDING: Total project: \$172,050

EPA funding: 137,000

Territorial match: 35,050

The Department of Natural Resources (DNR) has carried out several planning activities for wetland conservation. However, the protection of wetlands will continue to be threatened until a formal wetlands policy is established and a wetlands regulation is adopted. To accomplish this, the three different agencies administering environmental policies, water quality, natural resources and land use must agree on their respective roles in enforcement, protection and management of wetlands.

DNR has chosen to take the lead role in accomplishing this task, and proposes to create a Wetland

Advisory Council. This Council will be the instrument to develop a wetland public policy and the development of a Wetland Bill. The role of the Council will be to:

1. identify the major concerns and issues of wetlands in Puerto Rico through a series of public meetings and workshops.
2. develop an educational strategy directed to all governmental levels and private citizens to increase awareness of wetlands.
3. assess present legal and management strategies to improve their effectiveness and efficiency.
4. publish a Wetlands Public Policy.

Appendix I GRANTEE BY TOPIC

401 Water Quality Certification Idaho

Massachusetts

North Carolina

Ohio

South Carolina

West Virginia

Wisconsin

404 Assumption Florida

Mississippi Band of Choctaw Indians (MS)

Agriculture Maine

Assessment/Methodologies Arizona

Georgia

New Jersey

Oregon

Pennsylvania

Tennessee

Virginia

Campo Band of Kumeyaay Indians (CA)

Lower Elwha S'Klallam Tribe (WA)

Penobscot Tribe (ME)

Pueblo of San Juan (NM)

Best Management Practices (BMPs) Colorado

Kansas

Louisiana

Maine

Bio-criteria Minnesota

Montana

North Dakota

Classification California

Colorado

Iowa

New Mexico

Wyoming

Kickapoo Tribe (KS)

Miccosukee Tribe of Florida

Created Wetlands New York

Virginia

Cumulative Impacts Pennsylvania

Vermont

Endangered Species Florida

Illinois

Maine

Maine

Massachusetts

Red Lake Band of Chippewa Indians (MN)

Enforcement Delaware

Idaho

New Hampshire

New Jersey

Mississippi Band of Choctaw Indians

Forestry Kansas

Missouri

Texas

Geographic Information Systems (GIS) Arkansas

California

Florida

Maine

Massachusetts

Minnesota

Mississippi

New Hampshire
New Jersey
New York
North Carolina
Pennsylvania
Tennessee
Texas
Texas
Wisconsin
Miccosukee Tribe of Florida
Penobscot Indian Nation (ME)
Red Lake Band of Chippewa Indians (MN)

Local Programs New Hampshire
New Hampshire
New York
Washington

Mapping/Inventory Colorado
Connecticut
Florida
Louisiana
Maine
Massachusetts
Minnesota
Mississippi
Missouri
New Hampshire
New Hampshire
New Hampshire
New Jersey
New Mexico
New York
North Carolina
Oregon
Rhode Island
Texas
Vermont
Blackfeet Tribe (MT)
Campo Band of Kumeyaay Indians (CA)
Kickapoo Tribe (KS)
Passamaquoddy Tribe (ME)
Pueblo of San Juan (NM)

Pueblo of Zuni (NM)
St. Regis Mohawk Tribe (NY)

Mitigation/Mitigation Banking Arkansas
Delaware
Maryland
New York
Ohio
Virginia

Monitoring Iowa
Kansas
New Jersey
Ohio
Tennessee
Texas
Virginia
Wisconsin
Wyoming
Blackfeet Tribe (MT)
Pueblo of San Juan (NM)
Pueblo of Zuni (NM)

Outreach Iowa
Kansas
Louisiana
Maine
Montana
North Dakota
Ohio
South Carolina
Vermont
Pueblo of San Juan (NM)
Puerto Rico

Outstanding Resource Waters (ORW) Massachusetts
North Carolina
Vermont

Program Coordination California
California
Delaware

Florida
New Jersey
South Dakota
Texas

Public/private partnerships Alaska
California
Delaware

Restoration Iowa
Louisiana
Oklahoma
Oregon
Tennessee
Confederated Tribes of the Umatilla Indian
Reservation (OR)
Pueblo of San Juan (NM)
Pueblo of Zuni (NM)

Riparian Arizona
California
California
Colorado
Kansas
Kansas
Massachusetts
Missouri
Montana
New Mexico
Oklahoma
Texas
Wyoming
Confederated Tribes of the Umatilla Indian
Reservation (OR)
Walker River Paiute Tribe (NV)

State Program General Permits (SPGP) California
New Hampshire
New Jersey

State/Tribal Wetland Conservation Plans (S/TWCP) California
California

California
Colorado
Connecticut
Indiana
Kansas
Louisiana
Maine
Minnesota
Montana
Nevada
North Dakota
Oregon
South Dakota
Tennessee
Texas
Utah
Campo Band of Kumeyaay Indians (CA)
Kickapoo Tribe (KS)
Lower Elwha S'Klallam Tribal Council (CA)
Morongo Band of Mission Indians (CA)
Passamaquoddy Tribe (ME)
Pueblo of San Juan (NM)
Pueblo of Zuni (NM)
Red Lake Band of Chippewa Indians (MN)
Skokomish Indian Tribe (WA)
St. Regis Mohawk (NY)
Puerto Rico

Status and Trends Florida
Virginia
West Virginia

Training Idaho
Kansas
Maine
Maryland
Maryland
Massachusetts
Massachusetts
Minnesota
Montana
Vermont

Watershed/Basin Planning Protection Alaska

Arkansas

California

California

California

California

California

Colorado

Georgia

Illinois

Iowa

Kansas

Minnesota

New Jersey

New Mexico

New York

Oklahoma

Oregon

Utah

Washington

West Virginia

Blackfeet Tribe (MT) Pueblo of Zuni (NM)

Skokomish Indian Tribe (WA)

Commonwealth of the Northern Mariana Islands

Palau

Wetland Water Quality Standards Colorado

Iowa

Minnesota

Wisconsin

ANNOUNCEMENT OF GRANT AVAILABILITY

STATE WETLANDS PROTECTION DEVELOPMENT GRANTS

U. S. ENVIRONMENTAL PROTECTION AGENCY

WETLANDS DIVISION

Wetlands Program FY93 Grant Guidance

In FY90 Congress first appropriated funds to establish a grant program specifically aimed at supporting State wetlands protection programs--by developing new State wetlands protection programs or by enhancing existing State wetlands programs. This grant program provides financial support, through EPA's Regional Offices, to States and Federally recognized Indian Tribes to support wetlands protection programs.

Since initiation of this grant program in FY90, States and Indian Tribes have applied for and received funding to support many projects to advance their efforts to protect wetlands.

OBJECTIVES OF THE GRANT PROGRAM

This grant program was established to assist States' wetlands protection efforts. Grant funds can be used to either (1) develop new wetlands protection programs or (2) refine existing wetlands protection programs. EPA must ensure that all the funds will be directed toward activities that result in demonstrated progress in achieving this objective. **PROJECTS MUST CLEARLY DEMONSTRATE A DIRECT LINK TO INCREASING A STATE'S ABILITY TO PROTECT ITS WETLANDS RESOURCES.**

FUNDING ELIGIBILITY

Grant funds are available to State agencies administering or developing wetlands protection programs. State agencies with wetlands related programs are also eligible to receive funding under this grant program. These agencies include, but are not limited to, the State water quality (Section 401 water quality certification agency), State planning offices, State scenic river agencies, State departments of transportation, fish and wildlife or natural resource agencies, State agriculture departments, State forestry departments, coastal zone management agencies, State parks and recreation agencies, State non-point source or storm-water management agencies, and many other wetland related agencies.

Federally recognized Indian Tribes are eligible for funding under this grant program. "Treatment as a State" status is not required to receive funding.

Grant funds are awarded on a competitive process. While funds are allocated to EPA Regional Offices based on the number of States within the Region, EPA is not required to provide grant funds to all States. Funding decisions will be based on the quality of the proposal received and adherence to the selection criteria.

Based on experience gained from previous years, we offer the following comments/restrictions on funding eligibility.

-- This grant program cannot fund land acquisition or purchase of easements. However, this program can support planning efforts to identify areas for acquisition.

-- This grant program cannot fund payment of taxes for landowners who have wetlands on their property.

-- While contractual efforts can be a part of these grants, each grant must have a **significant involvement by the State** agency receiving the grant. Work done by other State agencies is not considered contractual efforts. As a rule of thumb, no more than 50% of the grant funds should go into contractual efforts.

However, if the State feels that they need to exceed this limit, they may prepare a rationale for greater contractual efforts. The Regional Office will evaluate the need for greater contractual efforts and approve the request if they agree that there is adequate justification to exceed the 50% limit.

-- Universities; interstate agencies, compacts, or commissions; intertribal organizations; non-profit organizations; local governments; and other similar entities are not eligible for direct funding under this grant program. However, they can receive funding through State or Tribal agencies as long as the agency receiving the grant funds actively participates in the project and has a significant role in the project. The State or Tribal agency should not simply pass through funding to an organization that is not eligible to receive funding directly.

-- Wetlands inventory and assessment projects are eligible for funding if they are part of a State Wetland Conservation Plan, a Watershed Protection Approach Demonstration Project, a geographic targeted or local wetlands management plan, or if the results **directly** input into development of a State wetlands protection program. Inventory for the sole purpose of locating wetlands in a State is not eligible for funding.

-- If the project involves multiple entities (other State agencies or local governments), the other involved parties should be included in the grant application and should indicate their commitment to the project by either participating in the project or indicating in writing their support for the project.

-- If multiple agencies within a State are working on a similar effort (such as a SWCP), there should be a concrete demonstration of coordination among the various agencies. This can be accomplished in different ways such as having a single agency apply for funding and distribute funds to the other agencies, a written agreement among the agencies outlining responsibilities and commitment to the project, or some other such mechanism describing the various agency roles and responsibilities.

-- Each grant project must be completed with the initial award of funds; incremental or continuation funding will not be approved. States should request the entire amount of money needed to complete the project in the original application. Each grant should produce a final, discrete product. A new grant can build upon a previous project, but cannot fund "continuation" of the previous grant.

MATCHING REQUIREMENTS

States will be required to provide at least a 25% match **of the Federal funds awarded** through this grant program. The 25% match is not calculated on the total project costs, but on the amount of Federal grant funds awarded. The State's matching funds can be provided by entities other than the State agency, i.e., local governments or non-government/non-profit agencies. Other Federal money cannot be used as the match for this grant program.

COMPLETE APPLICATION

All of the required application forms for a complete application should be available in your State agency. If the needed forms are not available, they can be obtained from EPA's Regional Offices.

Applications are considered complete only when we have received all required signed forms and certifications. Listed below are examples of the forms typically required; however, additional forms may be required by specific Regions. Contact the appropriate Regional staff for information on complete application requirements.

- Application for Federal Assistance (EPA forms SF424, SF424a Budget Information, and SF424b Assurances)
- Debarment and Suspension Certification (EPA form 5700-49)
- Drug-free Workplace Certification
- Certification Regarding Lobbying
- Procurement System Certification (EPA form 5700-48)

In addition, intergovernmental review approval and a clearinghouse number must accompany the application. Please note that in many States this review can take up to one month's time, so contact your intergovernmental review office early in the review process.

FUNDING STANDARDS

These grants are awarded under the authority of Section 104(b)(3) of the Clean Water Act. This grant authority is for research, investigations, experiments, training, demonstrations, surveys, and studies **related to development of State wetlands protection programs**. These grants are for the development of and not for operational support of State wetlands protection programs.

Each grant project must be completed with the initial award of funds. Incremental or continuation funding will not be approved. Budget and project periods can be for more than one year so larger, long-term projects can continue over more than one year. States should not anticipate funding beyond the initial award of grant funds to support a specific project.

SELECTION CRITERIA

Regional Offices and Headquarters will use the following criteria in reviewing and selecting projects for funding:

1. Success of previous projects

EPA will consider the success of any previous projects funded by this grant program. States that have successfully completed previous projects will be given preference over States whose projects were not successful or completed on schedule.

Success will be measured by determining if previously funded projects have been completed and have accomplished what was proposed.

States that have not received funding under this grant program will not be penalized under this criterion.

2. Likelihood of success

Projects with reasonable expectations of being successful and implementable will receive priority over projects with more speculative results or likelihood of success.

3. Transferability to other States

EPA will give priority to projects whose results or methodology can be adapted by other States.

4. Potential Environmental Results

Projects which are likely to result in direct protection of wetland resources will receive priority over projects with less direct protection.

5. Involvement/Commitment of State

Projects with strong involvement by the State agency in terms of staff time devoted to the project or level of funding committed to the project will receive greater priority in selection. Those projects with support from higher level management within the State government or

within the agency will receive priority over projects with lower level of support.

PROCEDURES

Complete grant applications should be sent to the appropriate EPA Regional Office by December 15, 1992. The Regional Office will review all grant applications received and select the ones for funding. Regional Offices may ask the States to submit a pre-application proposal before the above deadline so that Regional staff can work with their States to develop appropriate, fundable projects. Regions may request revised work plans to adjust funding levels to fit within the Region's funding availability.

Regional Offices will be requested to set-aside up to 3% of their grant allocation to support Tribal wetland protection efforts. Regional Offices may commit more than the 3% to Tribal grant applications.

EPA Headquarters will set aside 15% of the grant funds. These funds will be used to support a select number of particularly meritorious Regional office recommended State proposals that address priorities for advancing State wetland programs at the National level. The identified priorities for FY93 are State

Wetland Conservation Plans, State Section 404 Assumption Assistance, and Watershed Protection Approach Demonstration Projects. Regional Offices will select grant applications to be forwarded for Headquarters consideration.

Regional Office staff are available to work closely with each State to assist in the development of high-quality applications consistent with this grant guidance. We emphasize that the quality and effectiveness of the applications will play a significant role in the Region's selection of grants for funding. A Regional contact list is attached to the end of this document.

Quality Assurance Control and peer review are usually not applicable to these grants (40 CFR 31.45). However, if environmental measurements such as sampling will be done as part of the grant project, Quality Assurance Control will be required.

PRIORITY PROJECTS

EPA has established priority projects that will receive preferential treatment in funding decisions for the FY93 State Wetlands Grant Program. These categories support agency priorities and initiatives. Regional Offices will be asked to give priority to projects within these categories. We anticipate that the Headquarters set-aside will be allocated to projects within these categories. Other types of projects may be funded if funds remain in the Regional Office or at Headquarters. Projects which are selected for Headquarters' funding may require additional coordination by Regional staff.

The priority wetlands projects for FY93 are:

State Wetland Conservation Plans

The National Wetlands Policy Forum recommended that all States undertake the development of a State Wetland Conservation Plan (SWCP) as a means to improve the effectiveness and efficiency of government and private sector wetlands protection programs. EPA established a goal to assist all 50 States, on a voluntary basis, in the development of SWCP's by the year 2000. A SWCP should incorporate regulatory and non-regulatory approaches to wetlands protection. The World Wildlife Fund/Conservation Foundation (WWF) recently released a guidebook for developing and implementing SWCP's. This guidebook is a valuable reference for any State working on a SWCP. (Note: This guidebook is available from Island Press at 1-800-828-1302.)

While each State is unique and starting from a different point, we anticipate that a SWCP should generally include the following components:

1. Statement of Need, Goals, and Objectives

Briefly define the purpose of the plan; identify the goals to define the purpose and direction of the SWCP; include specific time horizons for achieving the goals.

2. Inventory and Assessment of Wetland Resources

Identify the State's wetland resources based on availability or easily obtainable information; summarize information on status and trends.

3. Evaluation of Protection Mechanism

Identify existing programs (public and private) and mechanisms available to protect and restore wetland resources; identify gaps in programs and opportunities to increase efficiency and effectiveness of existing and new programs.

4. Strategy Development and Implementation

Identify specific actions or changes, target dates for actions, and the implementation mechanisms to be used; geographic-specific plans which can include location of areas generally suitable for development, restoration sites, or acquisition; coordinate with applicable Federal, State, and local government programs and private sector efforts.

5. Monitoring

Establish how the programs carrying out the recommendations will be monitored and reported.

6. Plan Approval

Identify a mechanism and entity for getting approval and/or acceptance of the recommendations included in the plan.

SWCP's can also be used as mechanisms to assess issues such as wetland categorization, wetland delineation, role of and potential sites for mitigation banking, and other wetland issues or concerns of a particular State.

We anticipate that, in most cases, a State will have completed numbers 1 and 3 above before working on specific elements of a SWCP such as inventory and assessment or strategy development. In most cases, a State should have its goals, needs and objectives as well as a good sense of existing programs before embarking on more specific items. States that complete the initial phases of a SWCP will receive priority in funding decisions in future years as they submit applications for projects to implement their SWCP.

State Section 404 Assumption Assistance

The Clean Water Act provides for States to assume the Federal permitting responsibility in certain waters

of the U.S. The President's Plan identified State program assumption as a priority action for EPA. The Administrator

has established working cooperatively with States interested in assuming the Section 404 Program as an EPA priority.

Grant funds can be used to develop the legal authority and capability to assume the permit program, conduct outreach to develop public understanding and support for program assumption, and to develop the documentation needed to formally request program assumption. Tasks that are eligible include:

Writing legislation to qualify the State to assume the program;

Developing implementing regulations; developing guidance, policies and procedures for the State's program;

Conducting outreach and education efforts to government and private sector leaders and the public to develop understanding and support for program assumption; and

Writing the documents needed to complete a formal program assumption request.

For an application to be eligible for funding, the Governor of the State must indicate his/her concurrence for grant applications for State Section 404 Assumption Assistance. Grant applications that do not include the Governor's concurrence will not be eligible for funding. The Governor's concurrence can be indicated by a letter transmitting the grant application to EPA. A scoping meeting between Headquarters, the Regional Office and the State will be required for projects which are funded.

Watershed Protection Approach Demonstration Projects

The objective of the Watershed Protection Approach is to re-orient EPA, State and local government programs to address watershed protection in a holistic, integrated manner by promoting a geographically targeted approach so that Federal, State, local and private decision-makers can cooperatively focus resources on highest priorities, tailor efforts to the needs, coordinate and engage all appropriate participants.

Watershed projects should be comprehensive and adequately address all the major causes of wetlands loss or degradation within the watershed. One of the primary objectives should be to reduce wetlands loss or degradation. Projects should have a geographic or ecosystem focus; **should have a substantial wetlands component**; should address other water quality issues; should involve various levels of government and the private sector (Federal, State, and local governments, private groups, and landowners); and should consider all possible environmental protection techniques, programs or approaches to identify and address the problems. These projects are intended to focus on comprehensive planning. A watershed protection approach can also incorporate broader, multiple use goals such as

habitat protection, recreation, flood loss reduction, historic preservation, water conservation, and others.

At a minimum, a watershed protection plan can provide a blueprint to effectively manage wetland and other water resources in a geographic area; to coordinate and involve all appropriate parties in the effort; to consider environment and development needs; to have a strong public outreach component to reduce misinformation and increase awareness of the issues and needs; to address cumulative effects on a watershed basis; to identify and use all available tools or programs to address and reduce the problems; and to develop solutions based on analysis of needs, problems, regional resources, trends, stresses, and values of a specific targeted area.

Watershed Protection Approach projects should include:

Identification of the wetland and other water quality threats or problems

Objectives

Plans should describe what is expected to be accomplished.

Evaluation of protection mechanisms

Identify existing public and private programs/mechanisms available to protect and restore wetlands.

Institutional roles and responsibilities

Roles and responsibilities of all entities involved should be identified. Where possible, one agency should be identified as the lead agency for the project.

Critical area

The approximate size of the area of the project should be identified on a map. The critical area should be large enough to ensure that measures implemented will have a significant impact on reducing wetlands loss or

degradation. However, the area should also be small enough to be manageable.

Strategy development and implementation

Identify specific actions or changes, target dates for actions, and the implementation mechanisms to be used.

Monitoring and evaluation

Projects should include an appropriate monitoring component to evaluate effectiveness and success.

Information/education and public participation

The plan should describe how interested and affected public will be involved in the project. Each project should include a plan for communicating lessons learned to other areas of the State.

OTHER POTENTIAL PROJECTS

Funding priority will be given to projects in the above categories. However, other types of projects are eligible for funding as well. The listing below of suggested projects is intended as a guide to the types of projects eligible for funding under this grant program. It is not intended to be an exhaustive list, but just to give an idea of the projects that could be funded under this grant program. EPA will give equal consideration to other types of projects, as long as they fit within the parameters of the grant program and merit funding.

Water Quality Standards

The development of water quality standards for wetlands can be an important step for a wide range of regulatory and non-regulatory activities including Section 401 certification, monitoring, point and non-point source controls, and RCRA/CERCLA actions. A project to develop water quality standards for wetlands can include a number of approaches:

- Develop water quality standards specifically for wetlands, designating wetland uses and developing narrative and/or numeric criteria;

- Designate wetlands as outstanding resource waters, in which water quality must be maintained and protected according to EPA's regulations on anti-degradation.

(NOTE: All States are expected to have water quality standards for wetlands in place by FY93.)

Incorporate wetlands into the Section 401 program

States may grant, deny, or condition "certification" for a Federally permitted or licensed activity that may result in a discharge to waters of the U.S. The most important regulatory tools for effective implementation of Section 401 are a State's water quality standards regulations and guidelines implementing Section 401. There are a number of options for developing or strengthening State 401 programs:

- Adoption of formal regulations implementing State authority to grant, deny, or condition water quality certification;

--Development of water quality standards for wetlands (see previous example).

Streamline State regulatory programs

The President's Plan encouraged States to develop State Program General Permits (SPGP) as a means of increasing the States' role in wetlands protection. SPGP's are a mechanism to reduce unnecessary duplication between State and Federal permit programs, to reduce permit processing time, to ensure adequate protection for the resource, and to increase the State's role. Grant funds can be used to assist States in working with the Corps of Engineers and EPA to develop effective, environmentally sound SPGP's.

Grant funds can also be used to help States develop joint permitting procedures with the Corps as another mechanism to reduce unnecessary duplication between State and Federal permit programs and reduce unnecessary permit processing delays.

Multi-objective river corridor management

Projects funded under this category must have a substantial wetlands protection component. Multi-objective river corridor (MORC) management is a planning process that integrates multiple use goals for rivers and adjacent areas, such as recreation, habitat protection, water quality, historic preservation, and flood loss reduction. The intent of these projects is to simultaneously achieve as many goals as possible, recognizing the interdependencies of rivers and streams. Types of MORC projects may include (but are not limited to) river corridor strategies, greenway projects, riparian corridor projects, natural and cultural heritage projects, restoration projects, statewide river assessments, and statewide river management plans. Managing for multiple goals and objectives often requires creative, innovative approaches. Eligible MORC projects should include: river and wetland restoration and protection as one of the goals of the project, a broad public involvement component from the beginning, and address local resource issues and needs including private property rights and voluntary private sector wetlands protection efforts.

Monitoring

States are now required to report on the status of their wetlands resource through the Clean Water Act Section 305 (b) reports. There are often many sources of information related to physical inventory and functional integrity collected by universities, State agencies, and private organizations. States may wish to develop a monitoring program to coordinate existing and potential future monitoring efforts for inclusion into their 305(b) reports. This information would also be useful for States characterizing their wetland water quality standards or other use within their program. States may also consider developing a status and trends methodology to assess wetlands losses within the State and to assist in developing a program to regulate these losses.